

AMENDMENTS TO THE SEQUENCE LISTING

IN THE SEQUENCE LISTING

Please replace the Sequence Listing of record with the Substitute Sequence Listing enclosed herewith.

SEQUENCE LISTING

<110> Toshiyuki KOMORI
Yoshimitsu TAKAKURA
Yuko HIEI
Shoichi SUZUKI
Yoshiki KURAYA

<120> THE RICE RESTORER GENE TO THE RICE BT TYPE CYTOPLASMIC MALE STERILITY

<130> 0230-0220PUS1

<140> US 10/520,350

<141> 2005-01-04

<150> JP 2002-197560

<151> 2002-07-05

<160> 87

<210> 1

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide primer for amplification of R1877 EcoRI marker sequence.

<400> 1

cattcctgct tccatggaaa cgtc 24

<210> 2

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide primer for amplification of R1877 EcoRI marker sequence.

<400> 2

ctctttctgt atacttgagc ttgacatct gac 33

<210> 3

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide primer for amplification of G4003 HindIII marker sequence.

<400> 3

gatcgacgag tacctgaacg 20

<210> 4
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification of G4003 HindIII marker sequence.

 <400> 4
 aatagttgga ttgtcctcaa aggg 24

 <210> 5
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification of C1361 MwoI marker sequence.

 <400> 5
 aaagcaaccg acttcagtgg catcacc 27

 <210> 6
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Oligonucleotide primer for amplification of C1361 MwoI marker sequence.

 <400> 6
 ctggacttca tttccctgca gagg 24

 <210> 7
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Oligonucleotide primer for amplification of G2155 MwoI marker sequence.

 <400> 7
 gaccaccaat taactgatta agctggc 27

 <210> 8
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification of G2155 MwoI marker sequence.

<400> 8
tttctggctc caataatcag ctgtagc 27

<210> 9
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide primer for amplification of G291 MspI marker sequence.

<400> 9
ctgctgcagc aagctgcacc gaaccgg 27

<210> 10
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide primer for amplification of G291 MspI marker sequence.

<400> 10
acattttttc ttccgaaact tccg 24

<210> 11
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide primer for amplification of R2303 BslI marker sequence.

<400> 11
atggaaagat aactagaat gagc 24

<210> 12
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide primer for amplification of R2303 BslI marker sequence.

<400> 12
atcttatata gtggcaggaa agcc 24

<210> 13
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide primer for amplification of S10019 BstUI marker sequence.

<400> 13
aacaatctta tcctgcacag actg 24

<210> 14
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide primer for amplification of S10019 BstUI marker sequence.

<400> 14
gtcacataga agcagatggg ttcc 24

<210> 15
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide primer for amplification of S10602 KpnI marker sequence.

<400> 15
agctgttgag agttctatgc cacc 24

<210> 16
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide primer for amplification of S10602 KpnI marker sequence.

<400> 16
tagccatgca acaagatgtc atac 24

<210> 17
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide primer for amplification of S12564 Tsp509I marker sequence.

<400> 17
ctagttagac cgaataactg aggttc 26

<210> 18
<211> 27

<212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide primer for amplification of S12564 Tsp509I marker sequence.

<400> 18
 tttgtgggtt tgtggcattg agaaaat 27

<210> 19
 <211> 2240
 <212> DNA
 <213> Oryza sativa L.

<220>
 <221> misc_feature
 <223> PCR marker G4003 HindIII

<400> 19
 gcggcgcgtc cgggaagtcg agcgagtaga cgcccctgac gccgtacgcg tcggcgagcc 60
 gcagcggcgt ctctggcggg gtgaaggaca gcccggttcag cgtcgcgcgg cgccgcccgt 120
 tgatcgtcac cggcgcgcgt ctccgcagca ggtacgcctg cgtcacgttg atcgacgagt 180
 acctgaacga tccctgtggg ttcggcctcg ccgctccggc actcaggttc cacctgccca 240
 atgcaaaaaa ccaaaaccca aaagcttaat gcgaataata catcattcca cgtattttaa 300
 aaaataattt ataggtaaaa tttttataat gtatttttagc gacgtaaatg tcaatgctga 360
 gaaataaacg ataatacttt aaatgaagtt ctaaaattta aattttggca tcggttgatg 420
 ttggataaag aaaacgatgg aggctagtaa tttttcttct tttttaagta tctagattgt 480
 catatatgga atttttcagt ttttcatccc tttgaggaca atccaactat tattttcctt 540
 ttcttatgta aaaggttgaa caacatatcc aaacataaaa aaataaaaatt aaatgaaata 600
 aattttacaat tcataaaaatt tacagaattt atgttaaaga aatattcaaa cttagataat 660
 aataaaagcaa caaaatcgta ctaaaaagaa gtataattgt acattgtata ctactactcc 720
 tacaatttta gacttagaat ttttaatttc ctgaaatcta gtaatgccaat ttttttcttt 780
 ctagttgaac cagacagtaa gtttaactcg aaacttataa gctaatagag gaagtcgggc 840
 aattcactcg tacctgacgg agcgagcttg gttcatggag aaggacttgt cgaactggtc 900
 ctggggaggg tcgggggagc ggccggaggc ccgccccggg gagttggagt agcggaggac 960
 ggcgacgcgg gcgacgcggc gccacacggg gtcgttcacc atgcgcgcgc tggcgacgac 1020
 gtagtagtcg gagctcgcgt tctggctcgg ggtgacgagg aaggagtagg actggccgac 1080
 gtggacgtcc aggttggtgt agttctgctg cgtcgtgtag gagccctccg tctccaccag 1140
 caccatgttg tgcccctgga tctgaagtt gaggtcgtc gacgtcccca cgttgtgcac 1200
 tcggatcctg tacgtcttgc ctgtgtcccc acaccgacgt cgccgacaca cgcgcaaaag 1260
 ataatagact cattgtaagt aggtagtaac cttctccgtt tcatattata aatcgtttga 1320
 ttatatTTTT gttagttaaa cttctttaag ttttttttct ataaacttaa ttaaatctaa 1380
 agaattttta taaaaaaaat caaacgactt ataataataa atggatggag tagttgcatc 1440
 aatttgtgga tgaagcaaac aagattatat ccttttcatg agggtgaaag tattcagtga 1500
 acaattcgtc agtttcaagt ttcataaaat cggacagggt ctctgaaagt ctgtattttt 1560
 ggtactgttg gattgactac tctggcttct gttgtcacat cttttgtatc ctagtttcgg 1620
 taaaaaaaat tttggcattt ttactcctat cgttgatctg ttttaactgaa accattgcat 1680
 gatatactac tagcagacaa aactggtgaa aattcacgag aatgaacttt ttgtcagtta 1740
 agcattagcg gacagcttca gtaagcagag caggctgcct taaggcttaa agcactatct 1800
 tccacaacac tttgtcctac aatcaaattc caaatttact atcacaaaaa gcgaaggaaac 1860
 taactaaacc ttactcctac tagtactact gctatgacta tgaaacaaga ttccaatcca 1920
 aagaaaaaac atgtctcgat cagcatgata aaagcaacga aacctgctca tccagctgcc 1980
 aaaatgccac cccactgact ctacgtacgt actacgtatt gacgtgttaa aaaactagcc 2040
 gtagtacaga gaagaggacc caaagtttctg tcaaaaattt tattttaccc ggatccacat 2100
 tgatggtctc gtactcgatg ccggccggga caaggctgtc gttgtacctg tacgggcccct 2160
 tgccgttaat cagcagcgcg tccggcatcc cgaggctcct gccactgtcc agcatcttcc 2220

tcagatcctg caacgaattc

2240

<210> 20
<211> 2601
<212> DNA
<213> *Oryza sativa* L.

<220>
<221> misc_feature
<223> PCR marker C1361 MwoI

<400> 20
tcttgctgag atccaagttg cggtaacttt gcccttttct ttttttcttc tcttctgaat 60
tttttcatgg tttttgggag agattttcgt aacttgatta cagttctagg aaaaggccac 120
cttgttcaaa cagggctttc ttgaaagga tcaatttgct aggagtacat gattctaaaa 180
gcgatttcga aataaaacac agttctcgat ctcatacctg aaaacaaaag gcccatactg 240
tgtaaaactgt gattatgctt ctgttaaagt ggatatttgt acaaaattga cgccaaccac 300
ctataaacag attgtgagct tttatcttag taaaataaaa tgtgacattc tactcagtgt 360
tcagtgatcc gatgtcgtct cttctgcgta caacttctaa cagccgtttt cggtagtaca 420
aactagcgaa acaccaaaaa cgcagcattt gagttctgga atacgctgaa attgtagaa 480
tcaaccacga aaccaaatac attgttcaga aacgttgcaa cgagataaaa cacaagaact 540
tgttttaaca aagcatagcg acagtacata tacggttaca acaccagtc tttatacagt 600
tctgctggag ttccatctac tggtgtcat tgtatctcag gacagacagg ttaacatagg 660
tacaacacaa ttacaggcta aaccgaagcg aactacactg tcagcatctc taacagtatc 720
gtcaagcaag cttatttaca gctgctctag taaatttaca acgtccctgg cagaatccct 780
ctcgtttctg gcagcgacga ggcacggtcc atggccttag caggacatct caccgcagc 840
ctgcatagaa agcaaccgac ttcagtggaa tcacctcctg ctctgcaaa aaagttgggt 900
cgatcaatca cgcgtttaat ccaaaacaaa atgggtatta attatgctag cctatgaagc 960
tacctcagag ttctctatct gctctgcagg gaaatgaagt ccagtggaa agttctcaag 1020
cacctcaggg ctcttcatcc atgctttgtg tgcttcaatg gctttcagct tatagcgaaa 1080
catctgcgat acggatctaa aattaaggat gtcgacaatt acttaacaca acaaataatt 1140
gaagcaggtc cagttaaaga aaagtagcag cgaagaatag cactctgaag tctgaacctc 1200
agataaagaa atggttggtt tttccagttc atctccctca acatggattc cagtaccctg 1260
gcattctggg caaaggatgg atgttatttt cttaggtgca ttttttgctt ttcttctctg 1320
attgcttttt cccttgcttg caattttgtc tgctagcatc tcatattggc ataaaatagt 1380
ccagtgcaaa aggcaagaag tgtgaaacaa atgaaatgcc tgcaaaatta gccgtacaaa 1440
gtcattggag gttgcagcag aatactacaa atttttaaag aagaaactat acactgtcta 1500
tgttttgctt gaaatgaatt caaccacttt gcattatacg gtttggaatc cctgggtttg 1560
gagaactgta attccattac aacagtgaag aagttaccat aactaatgaa tggaaattag 1620
tcaaatgcct aatttttttag gtttgcttta atttatttat ctgtgagaaa tgctaagcat 1680
gtcatgcgtt gctatcttca agaaatacta agaaactgca aaggcaaaga atgtttgaaa 1740
taacttacc cgttgagtt tctactgctg caggctagat ttctgtctt gcagttgagc 1800
aaggtagcta catccttttc aagaagcatt ggtcgccac aaatatcaca agctttctca 1860
gcagcaaggc gcttctgctt acgcaactcc ctctcatag atttggtgga taagaggcca 1920
acttgaagat tgtgtgaagt acctgtcggg gaacctgtta tgatagcttg gctattgtca 1980
tgggcggagc tgctttgctc attcgactcc tctgaagatg cttcttgatc tgaaaatgac 2040
ttctttcttc tctttccacg gtgtccagca tcatcaatca cgaagaaaga tccagcagag 2100
ataggaaggt cctgatcatc agaagaccac ttctgcca actcaattgt ataagagaag 2160
ttgacaatgg caaagtcaga ttgctcatag gtgtcacact catccaagcc atgggagcca 2220
tcctgtccta cccaagcaca ccagatcttg ctaatctttt tacttctttt gctagcttcc 2280
cataacctgt atgcaatatt tccatatccc aaaagatgca caggcaaata cgaaacaaca 2340
tccttttagc atacactagg aataacgaga ggaccgtcag ttccactttg gtttgacagc 2400
acatgatctt cagatacaga agcagttcta ccattaccat gcgcatttgc accacggcgt 2460
gtgccttttg cgccattgag agagctagaa tcatctctca acctcgaagt cacttcagt 2520
tcgttcgctg gaaccagagc cagctctctg gtgttctgag agctcgagtc cagcaagagc 2580
gggtccttct cgcgcgagtt g 2601

<210> 21
 <211> 1333
 <212> DNA
 <213> Oryza sativa L.

<220>
 <221> misc_feature
 <223> PCR marker G2155 MwoI

<400> 21
 ccctctgctt gatccagtgt acatccatgg gttaggacag attagttact cagttaatta 60
 agtgtgagac tggaaaaaaa tatctgacgg cagttttata agttgagtga ttgaactagt 120
 gaaagttcag ttaactgtca acggctgtag atttgggatg gcagactggt ctgagtcaaa 180
 atgaagcttt tactgtgctg ggttaccagg tgcagtaaaa taatttcaga tctaactcga 240
 gtaaaaaaat gtagtactat atgttaagac gagattgggtc ggtcaaaatc tatctggccc 300
 ttacatcttc ccaaattgta cctcagttgc aggtggtaaa aaaaaatcac tcgtttcacg 360
 tgatgtcggc agatcatgga ccatgtctca aatgctgaaa ctctgaacaa tcaacaaaaa 420
 aatccáacca gatgagctgt gcaactgata attgatcatc acactatttg caactcatct 480
 ttcattgtaga tggaaattca atcccgaaga aataatgaca gcaaaatgct gcgatcctga 540
 agaaaggatg gcggaacaaat ggcagcgata aaaaaaaat ggttgggttac tgaagaatta 600
 tttgtgcagc agttgagaca gtagcaagat aagagctagc taagctagct aggtagagtt 660
 ggatggaaga gtagtagtat gagatagagc atggagcgcg acaactcaag tggatgctaa 720
 agtaaaaggc attctcttct cttgtttgga atcagaaaag aaaagaaaag acttgagctg 780
 cttggctgga atgtttggtt ggatcatgcg cgctctcctt agcttagctc gccaaagaaat 840
 cctcgcttca tctctctcaa taattcaaag ccacgagctc tctgctcata tccagtgcga 900
 cgattcccggt taatgcaaat gcattatctc cagttcgaaa tgttacaatt cttgcgtttg 960
 cagcaagcca gcaagtgggtg tgaattgttt aatccctcgt gcatttcaac gaaattctct 1020
 cacaaattcg cattgacttc tttcttagca caattagtaa gcagtgacaa ataaagaatt 1080
 tttgaacagg atgtctttcc aaggaagggtg agatttttta tgtggatagc aaggatcgcc 1140
 tttccttagc atgaagagaa tgtgatcaac tttacacctt gcttacgatt atggccttaa 1200
 tttttgatac cctaaacagg agcacatcac atgcatgtcg acctgagacc accaattaac 1260
 tgattaagtt ggcatttcag atgcatccgt cagttacatg atcaggtgat cgatggatca 1320
 actgtagggtt tca 1333

<210> 22
 <211> 863
 <212> DNA
 <213> Oryza sativa L.

<220>
 <221> misc_feature
 <223> PCR marker G291 MspI

<400> 22
 cgaacaggat caaaagtaga cgacgagggc atttagaagg agaggaattg tatttgttcc 60
 cggtatttaa tttttaaat tgtggctgga agtttcggaa gaaaaaatgt gctcatgagt 120
 gattattggc tctgaacacc aacctctctt ttcgttgatt ccttctgagg tgttgggtgt 180
 tgggacacga tgctgccgcc gacacgacac cgggttccac aatacactaa tctactcgcg 240
 acaccttcat tgaactgcat ataattatct agaaagtcca ttaacacatc ttataaaacc 300
 ttgttgaatc atataatcat tctataaagt ctatttgaac atcttatgaa aaaataagat 360
 ctgacctagt cgttacactc tcttacatct tccattagcc taactaattc cgtgcaggaa 420
 acgccccaaa ataatagtac caatagtcca ctaatcccggt gccagaggcc gccaatgatt 480
 agtgattaac ccaaaaaaca taatcatcat cacacgcgcg taatgaccag ctctcgctta 540
 gctcatccca caggcggccc ccacacgcca ctctgocat gtgggcccac ctttcacacc 600
 ccccacaaac cagaaaaaaa actcccccaa aaaaaaaact tttaatgctt atctcgcgcc 660
 agtataaaag gcgacccccc caccacaca caatcacagt cagcgaccca acccaaccgc 720
 agccgaggag tcgagtcgtg tgaaaattac gaaattgccc ttcgactcca ccaccaccac 780

ccaccggcga ggcgaggaga ggagaaaaat tgggaggaaa aaaaaagggg aaaagaaaaa 840
gggtggagga gatTTTTgcg aag 863

<210> 23
<211> 1510
<212> DNA
<213> Oryza sativa L.

<220>
<221> misc_feature
<223> PCR marker R2303 BslI

<400> 23
tgccatgaag acctatggaa agaatatctt cttctcactc tgtgaatggt gagtttactc 60
tctgtaacat ttagggctag gtcgaaggaa catgaagcat tgctgattca ctccactgtg 120
tttttttttt ctgtataggg ggaaagaaaa tcctgctaca tgggcaggcc gcatgggtaa 180
cagctggaga acaactggcg acatcgccga caactggggc aggttctact catcctctct 240
ttaaccctgt ttacatagtt cttgagtttt tcagtactga tcgtaattgc cctgttattt 300
cagtatgaca tctcgtgcag acgaaaatga ccaatgggct gcctatgctg gacctgggtg 360
atggaatggt aagaacttga gatgtatctg ttcttaggtt gcttaaccat ttgagagctt 420
caaatgatc aacatatgtt tctgctgtgc aatatcagat cctgacatgc ttgaagtggg 480
aaatggtggg atgtctgaag ctgagtaccg gtcacacttc agtatctggg cactagcaaa 540
ggtaccatag catgttctat gtactaataa ttttgctgca atgttgaact tctttgcatt 600
tcctcactgc aagttttgct tgaattgttc aggtcctct tttgatcgga tgcgatgtgc 660
gctcaatgag ccagcagacg aagaacatac tcagcaactc ggaggtgatc gctgtcaacc 720
aaggcaagcc ttctcagttt cacatgctta gatttagcca tacctcttgg atatttcacc 780
atactcataa tgtaactctc tgaacagata gtctaggtgt ccaaggaaag aaagtacaat 840
ctgacaacgg attggaggta tcccttcaat ggcttccaaa tttgcagttt ctcattgtcc 900
cataagcctt ggcgatgatc tgactaactc tgaagctgac aatactttgt gtaaatttgt 960
cggtaggttt gggccggggc actcagcaac aacaggaagg ctgtggtgct ctggaacagg 1020
cagtcatacc aggcaaccat cactgcacat tggtcgaaca tcgggctcgc tggatcggtc 1080
gcggtcactg ctcgtgatct atgggcggta aagcctttgc tttcttcaga gctcaaagta 1140
gaacatcttc tcttcagaat tcagagttca taacaaattt ctgtcaattg tgcagcactc 1200
ttcgttcgcg gctcagggac agatatcagc atcgggtggcg cctcatgact gcaagatgta 1260
tgtcttgaca ccaaactagt cagcaaagaa aagcagcaca ggtagtacg tgtccggcga 1320
atacagctaa attgatcagg attcaggaag aaggtttgca atttgcaagg attggtagag 1380
ctggaaatgg gatgccattt gggttatgtat gtagaaataa gctgtaagcc tgtaagcgta 1440
tatgtaatca gccgtcaaat gctggcgagt gtatttctga agtttgcaac gaaagttgca 1500
gcaataaaaa 1510

<210> 24
<211> 1016
<212> DNA
<213> Oryza sativa L.

<220>
<221> misc_feature
<223> PCR marker BstUI

<400> 24
tggggattct tttctttaag caatttaaca ttattgtcct aacaatatac acaatattgg 60
tttttctttc agtatcaaat aattctttta cttttgaaaa cacatttgca atgtgttgga 120
aacacaatta tatcttgac ttcttttttg aaatttaatc atttgaaaac tgattcgcgt 180
ttcatggctg taatcttctc ttgcgaacat cgctctttct ttgatggttc tctgttgaga 240
agaagagcaa ccaagtaaat tttcgaaatg tttttttggt ctttctattc accattgcag 300
gttggtcaag ccacgagaa ggccataccg attccgagag cgcaacccat tgccttgat 360
ggcccagcaa ggggaagagct gaaggccatg gaggcgcaga aggtcgagat cgaccgcacc 420

```

gcggcgctcc aggtgcgcgc tgagctttgg ctggggctgg catacctcgt cgtccagact 480
gccggcttca tgaggctcac attctgggag ctctcatggg atgtcatgga acccatctgc 540
ttctatgtga cctccatgta cttcatggcc ggctacacct tcttcctccg gaccaagaag 600
gagccctcct tcgagggtct cttcgagagc cggttcgcgg cgaagcagaa gcggttgatg 660
cacgcccggg atttcgatct ccgcgggtat gacgagctcc ggcgagcctg tggcctgccg 720
gtggttcgga ctccgacgag cccctgcaga ccgtcgtcgt cgtcgtcgtc gtcttcgacg 780
caggagagcc attgccattc ttactgccat tgccaatgat ctttgtgctg ttctgttctg 840
ttgtcagaat tttttcatgc ccagtttatg ggggttaagc tagcttctcc attgtaccgt 900
tctgatgtgc ggatgatgcg atgcaaagca tagtttgttg aagagatgac aaggcagatt 960
ttagcttgaa aacctggagg tgagaaaaaa aaatcctgat gtgtttgtgt gtgtga 1016

```

<210> 25
 <211> 676
 <212> DNA
 <213> *Oryza sativa* L.

<220>
 <221> misc_feature
 <223> PCR marker S10602 KpnI

```

<400> 25
accaccttca tatgaagaaa ttaacggtgt tttcatgagg aatccaacag tcgctgaatt 60
ggtggaaact gtggaattct tcttggtgta ggtaaccaat catcacttca ccacaatgca 120
caagtttgta gcttactact acagtacttc taataagttt tgtctgttga gattttattg 180
ctgatttcta tgcattggtc tctttttgac aggccatcca gtcttatcgt gctgagagtg 240
aaactgagct caacctggca gctggtgact atatagttgt ccggaaggta cggccctatc 300
ttcccattgg acatgtttct aaccataaac atatctttgc tggacttttg tgggcaaagt 360
tggctacact aaacttgtgt tcattaacct gctcaatcag gtgtcaaaca atggatgggc 420
agaagggtgaa tgcagagggg aagctggctg gttcccttac gactacatcg agaaaaggga 480
ccgtgtgctt gcaagtaaag tcgccaggt cttctaggcg ttcaatgagc catacataca 540
taaccctggt gttgtacact gtattatgat cgttcgtgat cttcaaagac cctctgatca 600
gagaaatcac aaatattctt ttgttctatt attgtcatta tcaactaccc ttttgtcaaa 660
accagtgcag cttttt 676

```

<210> 26
 <211> 1059
 <212> DNA
 <213> *Oryza sativa* L.

<220>
 <221> misc_feature
 <223> PCR marker Tsp509I

```

<400> 26
gcgagatcat gaacttgatt ttctggttgc catattgggc ttgcttggtta accttgtaga 60
gaaggatagc cttaataggt aagtcctcca catgcttctt tccatttgct caattcatat 120
cagtgttact gttctggcag ttcttggggg tcaggactca gaaacatcca attaatgttc 180
atgttctctt aacgactcag aaatacttta taacctctcc acagggtagc gctttcatct 240
gcccggtgtc ctggtgatct atctcagaat ccacagagtg aagagacaca gagagatgtc 300
atagcactcc tctgttctgt attcttagca agtcaagggt ctagtgaagc ttctggaact 360
atatcaccgg taattcaaaa ttcttcaagt tccttttgta tgtagattat atctttgtaa 420
aactcggcat ttattacctg ctctttgttt caaaaagcag tattttattt tgctccttag 480
cataggtcag cagaacagtt gatcttattc agaaaacaat attttgcatt taacatactg 540
ttatctatga gatgaaaatt aatgcatgtg taataatgtc aatgataaat atttgctatc 600
tgaatccagt ctaccaactc tagtttagacc gaattactga ggttctattt caaagaataa 660
tttagtgcac catttggttca actactatga agtaaaatgg tattcccttc tattgacatc 720
gggttagaag tgaaaggcca tcttaatgag atgttctcaa tgccacaaac ccacaaattt 780

```

cattaacaca	tacagattat	tattaacata	gctataaatt	ggatttccag	aagcttgagt	840
tgaatttatt	ttgtttacaat	tgaagcact	gggaacatta	gcattttttt	ttagttcttg	900
gttattgcaa	tttataatgt	tatacagaac	tgtgtacctc	acaatgcatt	cattatgaca	960
ttctatgaac	catttgattg	actgttgctt	gtaaacaaca	ggatgatgag	gagtctttga	1020
tgcaaggagc	acgggaagct	gaaatgatga	tcgtagagg			1059

<210> 27
 <211> 76363
 <212> DNA

<220>
 <221> misc_feature
 <213> Orza sativa IR24

<400> 27

gatcaactaa	caacctcttt	gcagcaaaaa	agcatacaca	caagtgtttg	tcttggcctg	60
gggctctgca	gatggactga	tactctgacc	tgcagtgggc	ttgggagcta	acaatggttt	120
cattcttttt	ttttttatgt	tttcccctgt	tgtttttgct	catgttttgt	gtaatttttt	180
cttctcatct	agcgaatgta	tttttcttag	catgatggga	gtagccctcc	tttttttttc	240
tctaattaag	tgtaaagtag	caacagcata	gggatgaatg	ttcagtgtag	tgtgtggtgt	300
ttcagttatt	cagagacgtc	catacagttt	gtacctgtg	accacacgtc	ttaatctgat	360
gaagcttaga	ataaatcaca	tgttagcaat	gcaatatcat	ctgcgtcttc	tctcactttg	420
gtggccatca	aattctgtgt	agaagtgtat	ggttgggtgt	ctgttgcaaa	tgccgtattc	480
cgctctgttt	tgtggaagtt	aagaagtccc	tagttgaaat	accgattttt	catgatctcg	540
gagattgatg	caactctgat	tgcagcattt	ctttttatta	gaatgtacac	tccatgctat	600
catgatgttt	attgtttagt	actacaagat	ttgggttaacc	attattttta	tatcataata	660
attttataaa	atcttggagt	aacaagttca	taatacatga	tagcataact	ttttgaggct	720
agtctatgta	tattgtctcc	tttgttttta	aactaagcac	tcaataaatt	attgatggct	780
gtaattttct	gaaggtttca	ccgggtttcgg	ccogtgcttt	ataaatagct	tcggcacaaa	840
agacaaaacg	gtccctccaa	cacataaatg	gttgagttta	cgttttcatt	atctttggta	900
aaatcaagtc	caccacgtag	acactcataa	caaaagtttg	aatatccctca	gaaattttga	960
cttgagtcta	tcttaccttt	gatatcggac	atccaaccct	ccctccctcc	ctgaacttta	1020
tattattcat	attacacctg	aactttatat	tattcatatt	acaccctgaa	gtggttttca	1080
tttaattgca	tacatgctga	aatagtttga	caacgtgaga	tgcactaaaa	atctacacgt	1140
tcgtcttaag	ttgcaattca	ttttatccct	tttctttttc	tctcttacat	aggaatatca	1200
atagtactaa	ttcacattac	aatatagtat	aaattggtaa	tcgattattg	gcaataatac	1260
atattaaata	ttcaaaaacta	gtcattttaag	ctgccaaaata	agtaaaccac	tatcgaaaac	1320
cacaatataa	atggcattac	aaaacttagg	gggttgaata	tccaatttta	aagtccatga	1380
tgctagagga	atttctatca	aaagtttatg	ggtagatatg	gactttttcc	tttttaaaag	1440
aagctattct	tgtcgtaaac	gttaaataatt	ttttgtactt	tattttttat	gattgaaaaa	1500
aaaacttagt	tttcaaaatg	attggtctgt	atacaagcat	caattagact	taataaattc	1560
atctaacagt	ttcctggcag	aaactgtaat	ttgtttttgt	tattagacta	cgtttattat	1620
ttcaaataatg	tgtacgtata	tctgatgtga	caaccaaacc	caaaaatttt	ccctaactcc	1680
atgaggcctt	acagatatat	ttgatgggtg	taaagttttt	taagttcttt	gggtgcaaag	1740
tttttaaaagt	atacggacac	acatttgaag	tattaaatat	agacaaataa	caaaacatat	1800
tacatatctt	gcctgtaaac	aacgagacaa	atttattaag	cctaattaat	ctgtcattag	1860
caaacgttta	ctgcagcatc	acattgtcaa	atcatagcgt	aattaggctc	aaaaatattc	1920
gtctcgtaat	ttacatgcaa	actgtgtaat	tgggtttttt	ttcgtcaaca	tttaatactc	1980
catgcatgtc	caaataattt	atgcgatctt	tttgccaaa	ttttgttgga	atctaaacaa	2040
ggatcaaatt	tgtgaatttt	ttccagacgt	cacggcttgt	tcatccatcg	ttcgcacatc	2100
gattcgccac	cgacgccttg	gtttccaacg	aattttatca	tccgcttaaa	tacatccaaa	2160
gctctccatc	gccatcggcg	gccaaacggcg	accgctccgc	tctacccaat	ccacccatcc	2220
actcgccgcc	gccccctgat	ccaaagcctc	cgccgcgcgc	ccgtcgagag	gaggaggagg	2280
aggaggagga	ggaggcgtga	gccccctatg	ggacccctct	ccggccgcgt	ccgcttgccc	2340
acgcgcgcgc	cgccggcgac	gccacgcgcg	cgacgcgcga	cggtagccac	gcgcctctcg	2400
agaggccccc	ccccccgcgc	gctcgctgat	ctctctctc	atcctgtttg	gggttggggt	2460
tgtgatttgg	gtgttttttt	tttttccgca	gcggtggtgg	tgagcgggtg	ccgcggccgt	2520

ggcgtggagt	gccagccgca	tcgggtgcgc	cgccgcccgg	gtccgcaggt	tgcggtggcg	2580
acggcgagct	ggaggaggcg	gagggagacc	gtggtgagat	cggatttcgc	cgctggtggt	2640
gccgctacca	tgggggattc	gccgcaggcg	ctctcagggt	tgcagcctcc	tccactctct	2700
tctcgcaaaa	tgtgttgcta	tgttcctctc	gctgggctgg	cctcatagcc	attaatgtag	2760
tttgctggaa	cattacattc	ggaacgttgt	tggcaattgc	ttgacaaaat	gtggaattgt	2820
ggaggggaga	aaaatcgttt	gaacctgcag	tgacaaaatt	gccatctata	attttaaaac	2880
tgaaggtgtg	gaaatcaaac	ataatcattg	ccagcacatc	attcttgtta	accaccttga	2940
cataattgtt	gcttataaca	gttagctcca	caccaacttg	gaaggtgtca	atggaatgta	3000
agtataaatt	gaggataact	ggcagttggt	aagactttct	acagaacttg	tagcagctaa	3060
aactagctat	tgtgcattta	tgtttcatgg	aatttgagcg	gcaatggata	tttcttacta	3120
agacgtataa	tgcaaaaaaa	aaaaaaaaac	tatgtctatg	cagtttacat	gtaatgtgcg	3180
gatgcaaata	aaatcatggt	catggacaaa	ctaattgggt	tcataccaaa	ttccagaatt	3240
gcattttctt	tgtggttact	tttgtttgtt	gatttggtta	ccagacatcg	atgtgggttc	3300
aagggtcaga	ggggtttgct	tctacgcggt	gactgcagtt	gcagcaatct	ttttgtttgt	3360
cgccatgggt	gtggttcata	cacttggtgt	cctatttgac	cgataccgga	ggagagctca	3420
gcactacatt	gcaaagattt	gggcaactct	gacaatttcc	atgttctaca	agcttgacgt	3480
cgaggggaat	gagaacctgc	caccgaatag	tagccctgct	gtctatgttg	cgaacctaca	3540
gagtttcttg	gatatctata	cccttctaac	tctaggaagg	tgtttcaagt	ttataagcaa	3600
gacaagtata	tttatgttcc	caattattgg	atgggcaatg	tatctcttag	gagtaattcc	3660
tttgcgcggt	atggacagca	ggagccagct	ggtatggctg	tagtctcatc	cctgctttct	3720
taagtagaca	tatatacatt	tacagtattt	ggtaaataaa	caagatttta	tgaatcatat	3780
atgatttttg	ggaaaacaca	aaactctctt	tgttggtctg	cttgaacata	gttctgttca	3840
cacagttata	gcaccttctt	taaaatgaag	aactttgttg	catacacata	aggccaaacc	3900
acataatgaa	ttttgtttat	ttctatcttt	gaatgttagc	atcgtttttg	tttaatgcat	3960
gatcgcttct	ctatataatt	gtagtatgtc	aacattgtat	tccatgctga	gcataacaaa	4020
tggtttggtt	aaattcagga	ctgtcttaaa	cgggtgtgtg	atttggtgaa	aaaaggagca	4080
tctgtatttt	tctttccaga	ggggactaga	agcaaagatg	gaaagctagg	tgcatttaag	4140
gttcagtaac	caaacttagg	ttacattaca	tctaattgaga	tttttatatt	cagtatataa	4200
tgttaacctt	ctcatggtgt	actgacgtgg	ttataaatgt	ccccagagag	gtgcattcag	4260
tgtggctaca	aagaccggtg	ctcctgtgat	acctattact	cttctcgga	cagggaaact	4320
gatgccttct	ggaatggaag	gcacctttaa	ttcaggttca	gtaaagctca	ttattcacca	4380
tccaattgaa	gggaatgatg	ctgagaaatt	atgttctgaa	gcaagggaag	tgatagctga	4440
cactcttatt	ctaaacggtt	atggagtgca	ctaaagaaag	atgggtgttt	tttttattat	4500
atggaacctt	ttcaaaggca	cagacaggct	ttcaaggcta	agcttggtac	aggtagctgat	4560
actagttact	aattactttc	gtaatcagta	taaataagct	tgtgtagtgt	aatggcattg	4620
tacatttctg	cacttggtta	atttacagaa	gaggcaagta	atattttaga	ggattgagtt	4680
tattcaccca	gtcatatagt	tgaagaggca	agtaacctgt	aagagaggac	tgaacattaa	4740
cacctcttgt	tcgattaaaa	atgaccaaac	agctacaac	atgtattcga	ggctgttact	4800
ttagatatgg	cccatthaatt	tgtttagttg	tctatgtaca	tcctagttgg	tgtaaatgcc	4860
agttaccatt	tctatgatct	aaaacaatca	actcttttag	tatatatttc	aaaacgaaat	4920
tcagtacaca	tgtatgaatc	ttaatattct	tctctagctc	gttacaaaag	caacaaaggc	4980
accgtgtcag	ctgggttcaca	ttagctagtt	tgtacttagc	attatccact	agcaccttat	5040
tttcatgcat	atcatgctaa	tttgcttgcc	cacgttgagt	gggaattttt	ttcatgtttt	5100
ataattttata	tatgttttag	acttctagtc	cacaatttat	gtacttcatg	ttcctgagcc	5160
tctagtatgg	ctgatagcag	actaggtgct	gagtgctgtc	cttttttgca	gactgaagag	5220
agaagaaata	caagactgtc	cattgttagt	cagatttgta	aaaatagact	ctgatgtagt	5280
ttacttttgc	ccctatttta	tttttaacaa	tacaaatata	taacagatcc	taagaactta	5340
tcttaattta	ggagaagttg	ctcgtttcat	taaattaaat	tgtgaagtaa	aaatgtgtgc	5400
tcgagtctgt	caatgcaatc	ctgtgttctt	gtttgaagat	atgggttagg	gcaggccagg	5460
attgaacact	gaatggtgaag	actgcttctg	ccttcagaag	ttattgctaa	attttttagct	5520
acttgcagtt	agtgtgtcca	cgccgattaa	gcagtagaac	aaagtgtttt	tgtcgtgcac	5580
aaatgagtta	tatttcattg	gaaatcgaag	cgaaaacgaa	tcaaaagtta	gaagaaaagg	5640
ggaaacttgg	taattactcc	ataaagagag	tgcattttat	tggtgaagatg	gtatccggaa	5700
gctgtgagct	ccgggctgta	tgtattctgg	caaatttgat	atgagatgct	cgattattgg	5760
cttaagttag	cgatatcaaa	tttggggaag	caccaaaagga	attattgtga	aggagttatg	5820
ggtgcgtgac	ggttatctgct	aggttcaaat	ccttgtggct	atgaatattt	atctgctagg	5880
ttcaaactct	agtgactatg	aatattaatg	ggtaaggtaa	gggattttatt	gttaatttta	5940

gtttcttttaa	gattgtgccca	tcggacgccca	ttcggtaact	gtaataatgc	tttgatttgg	6000
attcacttgt	gttacatgca	cgcactaaac	atgtgcttta	ccctttcatc	tgtttttgcg	6060
ttctgggcta	gaaactcaaa	cggtgaattt	tccatggctc	gctcaacttg	acaattactg	6120
cgtgtcaagc	gatcttatac	gcatactatg	cgcacaagtg	attgtatacg	gatatgatga	6180
cagtataacg	tgtgatattg	atTTTTTTTaa	taaaaaaatg	atgttcattt	ccttgatgaa	6240
ggaacaaaga	ctTTTTTTTaa	aagaagggtta	ttactaaaaa	caaaaatgac	aaaaacaaaa	6300
tatcagtgca	catggcaagt	gtgctcggca	attttttctc	tgtactttta	acaaaaatac	6360
ttctatatgt	tctTTTTTTat	aagggtggca	caaatctttt	aatgagacca	aatatctaca	6420
ttggatttat	taaaaactgt	ataaattata	atttatactc	tgaaggttg	tgtgcatctc	6480
tcttgagaaa	aatgtataag	ttgcaaacaa	acattaatcc	acgttatgta	actTTTTTtc	6540
gccggaaagg	ccgaaggagg	cctgacggag	cgtgggggctc	ctcaccggga	gaccgcgcag	6600
gcccccttt	gcgggttcgg	ccggggactc	agggtgaaat	tctaagctct	ctgtatgtgg	6660
aaggttcgcg	accgtcgaaa	gagcataaga	cacgggcgat	gtatacaggt	tcgggccgct	6720
gagaagcgta	ataccctact	cctgtgtttt	gggggatctg	tgtatgaagg	agctacaaag	6780
tatgagccag	cctctccctt	gttctgggtt	ccgaatctgg	aaaagtccag	tccagtcccc	6840
ccctctaaat	gggcaaggtc	ctccttttat	atcttaaggg	gataccacat	gcaccatctc	6900
cctcctttct	gtggagactt	accctacctt	ttcataaatg	gacggagatt	tgtatagtgt	6960
ccgtccgaat	gaccttctga	taggaaggcc	catacctacc	tccacttccg	ccgaaagcag	7020
gtgcgacgtg	gatttatggc	tgtctgtga	cgacatgacc	agtgtcagac	tggtcacaaa	7080
ttgtctattc	ctgtccacca	cgcgctcagtt	tagcaatcta	catgttggcc	cttcttcaca	7140
caacatcttg	cctgtaatgg	ttaggatgaa	gcctggcata	tatctaacca	ggactaacgt	7200
gccatctcta	ggaggtaaca	cgctagctcc	agctggggac	gagcgcttag	aagccctcgt	7260
cctgacggga	tggggcgagg	cgtgcgtcag	atcgctgtc	gccacctaac	ctgggatctg	7320
accggtctgt	gactggtcac	agaccggata	aacgagtgca	ctgcacttcg	ttadatgcag	7380
cgtgacacgc	tcagccaaac	cgcaataaat	gtgggttaggt	gagccccgct	gtgctcacct	7440
aaccataaca	cgcgagcaa	aaacccacga	ggggtcgggg	cgctcgggcc	ctcggggccg	7500
aggcggtg	ggtccgaccc	cctcgggggg	actaagagga	gggcgaacac	atcacccctc	7560
ggcccgcagt	cccccgagg	tgccaggcca	cgtgggcgat	tgtgtctgcc	tcaaacctct	7620
agtcattgata	ctcctgatcc	catgtcaccc	acagtagccc	ccggcggttat	gccaggggcga	7680
tcgcccctct	taagggaagc	ggtcgggcgt	gacgccactc	ctaaggcctg	gtgacaggtg	7740
ggaccggtct	ccacaattgg	gcagaaaccc	aacggtcaca	aatcacgcac	atcggaatg	7800
gtaactctac	tatcaataat	gagcggctct	ttcaagactg	ccacattact	cgagtagcac	7860
acgaatctgg	acatggcgat	tcgtttcgtc	tggagatatg	gtaacgtcgc	tttgggtcggc	7920
gagcgtaatt	aacgcgcgca	cgatatgata	tatctcgact	gccacaaccg	catatccacc	7980
tcattgcgcc	caagcggg	aatgggatta	gtggaagcgt	gggcgcgaga	aacgagggg	8040
cgaatatagt	ggcgcgagaa	gcgaggagcc	gggcacagcg	ttggcaagag	tataaaggca	8100
ctgaggaaag	gatctgtttc	cttcctttcg	ccatcatttc	ccttgtcttc	gccgcttgcg	8160
ccctaactcc	ttctttcctg	tgtctacttt	tcgccacaag	cgctcgctct	caatcttctc	8220
ttcctccggc	gccatggcac	ggggctccgc	tctgtctgat	ggtagcgtgc	tgccgccttc	8280
ccgcacgtg	agcgagagc	aggetgggt	gccgcgcgc	ttcatgccgg	aatctgccac	8340
cgccggggag	atagtcacgc	tgggcgagg	acgcccggcg	ccagactacc	cggggcggtc	8400
cgtcttcttt	ctcccttttg	caatggcagg	gctggttcgg	ccattttctt	ctttcttcat	8460
ggatgttctg	aagttctacg	atctccagat	ggcgcacctc	acccccaacg	cggatgatgac	8520
attggccatc	ttcgcgcata	tgtgcgagat	gttcattggg	gtgcgcccac	ctcttcggct	8580
gttccggtgg	ttcttcaccg	tgcagtcggt	gtcgcgcgca	tcggtagttg	gtggctgcta	8640
cttcagacca	cgggggccc	tgtggaatcg	ctacatcccc	tgcgccctcc	gcaagaagtg	8700
ggacgactgg	aagagcgact	ggttctacac	ccccctcgcc	gacgaagcgc	gcctccgact	8760
tccgagccag	cccccggcgc	aggcctccag	ctggcgggcg	ccggtagatc	tgggggatgg	8820
ctatgacgcc	gtcctcgacc	gcctggcggg	cctacgatcc	caggggctca	cagggaccat	8880
ggtgtacggc	gactacctcc	gtcgtcggat	tgcgcgcgtc	cagcggcgcg	ctcggggcgc	8940
ctgggagtag	accgggtccg	aagactacat	gaggaccac	cagggagtca	gatgggactg	9000
ggctcctgag	gatttcaaga	tagtggtcca	acgggtgctg	aatctcaact	ccatggaggc	9060
gtccctcatt	ccccaggaa	tcctccctct	ctgcagcgat	ccagaccgcg	cctccactct	9120
gaccattatg	acggcggtcg	gggcctcaga	ggagtgcgtc	ccaaagggcc	acgacggcgc	9180
aggcgggagc	cgtagggggg	atcaatctac	ccggggagg	ggtcgtgctt	ctgggtctcg	9240
cgacggaggc	ccgaggagca	gccgccctgc	cgacgcccg	gggaagagga	agcagggagg	9300
aacacctccc	ccatctctc	cccgaggggg	cggggcggtg	cgtgccagca	gcaggcgccc	9360

ggaggggggccc	gcgccgacat	cgcagcccga	gggggagcgc	aagaagaagc	ggctccgcaa	9420
gatgggggag	acagaaccat	ctcagggaaa	ccttatttcc	cctctaaagt	ggtcgtttta	9480
ccgacccct	cgcaggttcg	tctctcacc	atcgtggctg	tattcattct	ctcaacgcga	9540
gttttctactc	acccatcttg	ttcgtcttct	ggctttttct	tctgttttcag	cgagatcccg	9600
tcgctccct	cccgccattc	caagtccggc	cagtctgagg	ccgaggatcc	ggcggccgca	9660
gaggccccga	ggcgggaatc	tgaccggcga	gaggccgcgg	atcgctacg	ggaagccgag	9720
gaggccgccc	aggaggccgc	ccgggctcgc	caggtcgagg	aaaccgctcg	ggaggaggcc	9780
gcccggggccc	gccaggccga	ggaagccgct	cgggaggagg	ccgcccagagc	ccaccaggcc	9840
gaggaagccg	ctcgggagaa	agccggattt	cgccaggacg	aggcaatggc	gacttccgag	9900
gcagctcgcg	atgaggtcgc	gggcgcgtcg	cttgagccca	cttcctcggg	cgacgctcag	9960
gcgacaactt	ccggggcagc	tggcgacgag	gctgcggggc	cgtcgcttgg	gcccactccc	10020
tcaggcgacg	cccaggacca	accaggtccg	agggacatcc	ctgagtccgg	cacttccatc	10080
ggcggccccga	ggcgcgtggc	atcctctcca	aggcggtctt	tccccacgcc	ttctatcgcc	10140
ccactgagcg	cagagccctt	tctgcaggcc	ttggccgcgg	caaacaccgc	ggtgttgga	10200
gggcttagtg	cccaggtgga	ggccctgcaa	gcagagtggg	cgagagtcga	cgccgcgtgg	10260
gcgcatgtcg	aggagggggc	gcgctcagtg	gaggccatgg	tggaggtggg	ccgcaaggca	10320
caccgcccggc	atgtctcgga	gcttgaagcc	cgtaagaagg	tgttggcgga	aatcgccaag	10380
gaagtggagc	aggagccggg	ggctgccttc	attgccacca	gcgtgatgaa	cgaggcgacg	10440
gacaccctcc	gccttcaata	cgggagctgg	gaggcggagc	tagggaaaaa	gctcgacacc	10500
gcccagggggg	tgcttgacgc	tgccgctgcc	cgagaacagc	gggcggggga	gaccgaagcg	10560
gcgtcccagc	ggcgcgaaga	gacccttgag	gcgcgcgcca	tggcgctgga	agagcgcgcc	10620
tgctgcgtgg	agagggatct	ggcggaccgc	gaggccgcgg	tactatccg	ggaggcaaca	10680
ctggcggcgc	acgagtccgc	ctgtgccgaa	gaggagtccg	cactccgcct	ccacgaggac	10740
gcgctcaccg	agcgggagcg	agctctcgag	gaggccgagg	ccgcggcgca	acggtggcg	10800
gacagcctgt	ccctccgcga	ggcagcgag	gaggagcagg	cgccgcgcac	tctggaatgt	10860
gtccgcgcgg	agaggaccgc	actgaaccag	caggccgctg	acctcgaggc	gcgggagaag	10920
gagctggacg	cgaggggcgc	cagcgacggg	gcggctgcgg	gcgaaaacga	cttagccgcc	10980
cgcctcgctg	ctgccgaaca	taccatcgcc	gatctgcagg	gcgcgctaaa	ctcgtccgcc	11040
ggggaggtcg	aggccctccg	cttggcaggc	gaggtagggc	ccggcatgct	ttgggacgcc	11100
gtctcccgcc	tagatcgcg	cggtcggcag	gtgggcctct	ggagagggcg	gaccgtaaag	11160
tacgccgcca	accatggagg	cctcgcccag	cgcctctcga	agatggccag	ggctctccaa	11220
cggctccccg	aggagctcga	gaagacaatt	aagtcactct	cgagggacct	cgcccaagga	11280
gcggtggagc	tcgtactggc	gagttaccag	gccagggacc	ccaatttctc	tccatggatg	11340
gcgctggatg	agttccctcc	tgggaccgag	gacagcgcg	gcgcaggtcc	gggatgccgc	11400
cgaccatatc	gtccacagct	tcgagggctc	agccctcg	ctcggttcg	cccccaactc	11460
cgacgaggag	gacaatcccg	gtggtgcaga	cgacgtgac	gatgaggccg	gcgacccggg	11520
cgtatcggt	tgatccccca	agcccccgcc	attctttagt	tttttcttct	tttcttctt	11580
ctaaggcctt	ggggcctctt	ttttgtatag	atcaacttaa	tctgtaatca	aaaatgaaga	11640
aatttttgtg	tcaatttcat	cttgctgtgt	gtatgagatg	aggatgatct	gtgacgtggt	11700
ccttttgcgt	cttagcttga	ttaagggctc	gtgccagggt	cccagtcctc	aaaaggcggt	11760
ggtcggggct	agtgcctggg	gagatccaca	tgtcgagact	ggccaggccg	ggaacgtggt	11820
gaccgagggt	tatgggtgac	ccgattgtgg	gtttttgcgg	attccccccc	ggagtccacc	11880
acgccccggg	gcacggctcg	gttctgggccc	ccgtttggcg	atttttagccg	acccgagccc	11940
ccgagggcag	gattgagcac	gagtgaacct	tttcaagtca	agattcttca	aaaggaaaaa	12000
aaaacacaga	tacagccttt	aggaaattga	aactgctttt	attgaaatac	tgaataaga	12060
gaaataagaa	tgtgcatgtg	tggcagcccc	cggccaacgc	tgcacgcccg	agggggtgcg	12120
gggttggccc	gagcccga	cctgacaccc	gacccccccc	tcaggggtag	aagcgacgaa	12180
ggtgttcgat	gttccacggg	ttaggcagct	caatgcgcgc	gcccgtggcc	agccgtatgg	12240
agcccggccg	ggggacgccc	accactcgat	acggaccctc	ccacattggg	gagagcttgc	12300
tcaatccagc	acgcgttttg	acgcggcgta	ggacgaggtc	gtcgacgcag	agtgatcggg	12360
ccgggacgtg	acgctgatgg	tagcgccgca	ggctctgctg	gtagcgcgcg	gctctgaggg	12420
ccgcgcgcgg	ccttcgctct	tccaagtagt	cgaggctcatc	tctgcgaagt	tgatcttgat	12480
cagcctcgca	gtacatggtg	gcccagaggag	acctcagggt	gagctcggat	gggagaaccg	12540
cttccgcgcg	gtagacgagg	aagaaaggcg	tttccccggg	tgctcggctt	ggtgtagttc	12600
ggtttgcccc	gagcaccgct	agcaactcct	cgatccatga	atcgtcgtgc	ttcttgagta	12660
tggtgaaggt	cttgggttta	aggcctttga	ggatttctga	attggcgcgc	tccacttggc	12720
cattgcttct	gggggtgggca	ggtgaggcga	agcagagctt	gatgcccacg	tcttcgcagt	12780

agtcgccgaa	gagttcacta	gtgaattggg	tgccattatc	cgtaataata	cggttaggca	12840
ctccaaaccg	ggcgtgatg	cccttaatga	atttaagtgc	ggagtgttta	tcgatcttga	12900
cgaccggata	agcctcgggc	cacttagtga	acttgctgat	cgcgacatac	agatactcaa	12960
accgcgccg	ggccgccta	aacggtccca	ggatatcgag	cccctagaca	gcaaattggc	13020
acgaaagtgg	tatggtctgc	agggcctggg	ccggtgatg	gatttgcttg	gcgtggaatt	13080
gacacgctct	acatcgccgg	accaggtcga	ccgcatcatt	gagagctgtc	ggccaataga	13140
aaccctggcg	aaaagcttta	ccaaccaagg	tgcgcgaggc	ggagtgggct	ccgcattcgc	13200
cttcatggat	atcggaaga	agcacaacgc	cttggtcccg	aggaatgcac	ttcaggagga	13260
ttccattagc	cgcgcgccga	tagagggtcc	cttctaccag	cacgtagcgt	ttggagatgc	13320
gatggacgcg	ttcactccct	tcgcggtcct	cgggtaaagt	cttatctgtg	aggtatgctt	13380
ggatctcggc	aatccaagca	atcaatctaa	gggagctggg	agcgtcccc	tcgggtcccc	13440
aggcctggac	ttcgacgggc	ctcggggggc	ggtcaggcgc	gtccgtctcc	cctaaggggt	13500
cgggtcgcgc	cgacggctgg	gcaagccttt	cttcaaaggc	gcccgggtggg	gtctgggctc	13560
gcgtggacgc	gagccgtgag	agttcgtcgg	caatcatgtt	atcccgtctg	ggcacatgcc	13620
gaagctcaat	cccgtcaaaa	tggcgtccca	tacgccgtac	ttggcgcacg	taggcgtcca	13680
tctgcggttc	agagcaccgg	tactccttac	agacttggtt	aacgaccagc	tgggagtcgc	13740
ctaaccaccg	gaggcggcgg	atccccagtc	cagctgccac	tctgagtcgg	gcaaggagtc	13800
cctcgtactc	tgccatattg	ttagtgcctc	gaaagtcgag	gcggaccaag	tatctgagga	13860
cgtctccgct	cggagaggtc	aacgtgaccc	ccgcaccggc	gccctgaaga	gacagggagc	13920
cgtcgaactg	cattaccacg	tgggcggtgt	gaggcagctg	cgagggggtcc	gtgctggcct	13980
cggggattga	gacgggctcg	ggagccgggg	tccactctgc	cacaaaatcg	gcgagagcct	14040
ggctcttgat	agcgtgacgt	ggttcaaagt	gcaaatcgaa	ctcagaaagt	tcgattgccc	14100
atttcaccac	ccgtcctgta	ccctctcgat	tatgcaagat	ttgaccgagg	gggtaagacg	14160
taaccacagt	gacccgatgc	gcctggaaat	aatggcgag	tttcctcgag	gccatcagaa	14220
tagcgtaaag	catcttctgg	gcctgagggt	atcgggtttt	ggcgtcccgg	aggccctcac	14280
taacaaagta	gacggggcgc	tgacaccttc	ggtggggccg	atcctcttcg	ctaggggccc	14340
catccctggg	gcactcttcg	tccaagcagc	ctcgcggggc	gcacttgtct	tctgtgctga	14400
tgacctcggg	gtcggaggat	aacaggggcg	gccttcccac	agtggctttg	gggccgtcct	14460
gggggtcagg	ggctcctggc	gtcgtcggac	aagcgggcaa	agggccaact	ccggtcgtca	14520
ggggccttag	gcctccgttc	ggctcggggg	cctcttctcc	ctgctctttc	ccgggtcgag	14580
tcagcacagg	gttagcctcg	gggtcaaagg	gcgatagggt	cggccttccc	acagtggcct	14640
cagggccttc	ctgggggtcg	ggggctccta	gcaccgtctg	acaagcgggc	agagggccaa	14700
ctccggtcgt	cgggggcctc	aggccaccgt	tcggtcggg	ggcctctcct	ccctgctctc	14760
tcccgggcca	agtccgcaca	gggtggggaa	gcgcgaaatg	agaattatcc	tcatcgcgct	14820
ccacaaccaa	tgccgcacta	actacttgcg	gggtcgccgc	taagtagagt	agcaagggct	14880
cgtctggctc	cggggcgacc	ataactgggg	gagagcttag	atacgcttc	aactgggtga	14940
gggcattttc	agcttctctc	gtccaggtaa	acggtccgga	gcgtttgaga	agcttaaata	15000
agggtaacgc	cctctctccc	agcctcgata	tgaaccgact	tggggcgggc	atgcaaccgg	15060
tgacgtattg	cattatcccta	agtttgctgg	ggggcgcatc	cgctctatag	cccgtatctt	15120
ctcggggttg	gcctcaatgc	cccgggcgaga	gaccaagaac	ccgagaagct	tgcccgcagg	15180
tacaccgaac	acacacttat	cgggggttaa	ttttatgcgg	gcggagcgga	gactctcaaa	15240
agtttccgct	agatctatga	gtaacgtttc	ctggttgccg	gtctttacaa	ccaagtcata	15300
gacataagcc	tcaatattac	gtcctaattg	gtaccgaaa	gaaattcgag	tagtacgttg	15360
aaaagtagga	cctgcattct	ttaaccggaa	gggcattgtc	gtataacaat	aggttcctat	15420
gggggtaatg	aacgcagttt	tttctctatc	ctccctagcc	atgcgaatct	gatggtaacc	15480
agagtatgca	tctagaaaac	acaaaagggt	gcaccccgca	gtggagtcga	caatctgata	15540
tatgcgaggc	agggggtaag	gatccttagg	acatgccttg	ttaaggctcg	tgtagtcgat	15600
gcacatccga	agcttgccgt	tcgccttggg	aacgaccacc	gggttcgcca	gccactcggc	15660
ggggttgacg	ctgccatcat	atttttcggc	gatggtgggc	cggaaccttg	ggggccaacg	15720
gacattccga	agactcgcca	caaaggctct	acagccgaca	ccaccaaccg	ggggcacagg	15780
gggctgattc	ccgcgtccgt	gttgagggtga	cactctggac	gaggaagcgc	cctccgttgc	15840
gtgggcagca	cttcggtcat	tacgcggcg	ctcgatgctg	gtgcgggcgt	ccggccccc	15900
acgcagatct	ttctgggtcg	aaggagtcga	cgaaggagtg	gcggccgaat	ggcgaaacag	15960
ggctgccgct	cgtcgtgccc	tccgtcttga	cgacgcggag	ccggtggtag	cagcaccaga	16020
ggccttggtg	gcggaggacc	gcccaccagc	atctaggcgc	tgccgtgccg	tcagtactaa	16080
tttggccacg	tcgtccagcg	atcgttgggc	tggagactcc	gggtcaggga	cgacaggcgg	16140
gtgacgtaag	agcgcgcccc	cagcttgagg	cgcgcctggt	ggcgtgctgc	cgtcgccgta	16200

gacgaggagg	cgacgcctccc	catctcgcgcg	ttctttctcca	tcgcccgcga	tcggtgaagt	16260
cgcggatctt	tcgacctct	cgagcgccctc	cccccgctta	ggactttggc	atggagggag	16320
cggtggagta	cgagctcgac	ggcggtgggtt	cggtcccccg	tcgtcgccac	tcacactcgg	16380
agagaggtag	tgcgcttttg	cttgctcggc	catcaggctg	aacaggaaaa	gcttggcgca	16440
cacggaagag	tacgagagct	cagaaaaaca	cacactgagt	cccctacctg	gcgcgccaga	16500
tgacggagcg	tggggctcct	caccgggaga	ccgcgcaggc	ccccctttgc	cggttcggcc	16560
ggggactcaa	ggtgaaattc	taagctctct	gtatgtggaa	ggtttgcgac	cgtcgaaaga	16620
gcataagaca	cgggcgatgt	atacaggttc	gggcccgtga	gaagcgtaat	accctactcc	16680
tgtgttttgg	gggatctgtg	tatgaaggag	ctacaaagta	tgagccagcc	tctcccttgt	16740
tctgggttcc	gaatctggaa	aagtccagtc	cagtccagtc	ccccctcta	agtgggcaag	16800
gtcctccttt	tatatcttaa	ggggatacca	catgcaccat	ctccctcctt	tctgtggaga	16860
cttaccctat	cttttcataa	atggacggag	atltgtatag	ttgccgtccg	aatgaccttc	16920
tgataggacg	gcccatacct	acctccactt	ccgccgaaag	caggtgcgac	gtgggattat	16980
ggctgtctgc	tgacgacatg	accagtgtca	gactggtcac	aaattgctca	ttcctgtcca	17040
ccacgcgtca	gttttagcaat	ctacatgttg	gcccttcttc	acacaacatc	ttgcctgtaa	17100
tggtaggat	gaagcctggc	atatacttaa	ccaggactaa	cgtagccatct	ctaggaggta	17160
acacgctagc	tccagctggg	gacgagcgcc	tagaaaccct	cgtagccgacg	ggatggggcg	17220
aggcgtagct	cagatcgct	gtcgccacct	aaccgcgcat	ctgaccggtc	tgtgactggg	17280
cacagacccg	ataaacgagt	gcactgcact	tcgttacatg	cggcgtgaca	cgctcagcca	17340
aaccacaata	aatgtgggtt	ggtgagcccc	gctgtgctca	cctaaccctat	acacgcggag	17400
caaaaaccca	cgaggggtcg	gggcgcctcg	gccctcgggg	ccgaggcggg	tgcggtccga	17460
ccccctcggg	gggactaaga	ggagggcgaa	cacatcacc	tcggggccga	cgccccccga	17520
gggtgccagg	ccacgtgggc	gattgtgtct	gcctcaaacc	tctagtcatg	atactcctga	17580
tcccatgtca	ccgacaaggc	catccgaatg	tattaaggag	taaaagttac	aagaaaaaac	17640
accataatgc	accaatgtgc	atgaccacac	accatacact	accccccaagc	acaaaccact	17700
gagggtagag	cctagcacca	aacgaccgcc	actaagtgtg	accaaacgcc	gctaggccta	17760
cggcagcaac	acatagatga	gacttcgaaa	acgatgccac	caaggtggtc	acgacatcta	17820
ggatgctgcc	atcgctccatc	taaaaagatg	tggttttcac	ccagagaaac	tcatcaagaa	17880
ggggagaggg	taacccttga	cagcgcccca	aggagggtac	gacgcccga	ggcgtagccg	17940
ctgccggtcc	ggtgaaccac	cggactaggc	ttccgcctag	gaccctatag	ccttgatcgc	18000
agatcacctg	ccaccactca	gaaccaccac	acagacaaaa	ggtagcacgt	agcttccacc	18060
acaccgcacc	gacgcccctt	cgtagcccca	ctccatcgaa	ccaccatccc	tgagagctgg	18120
cccaggaccc	ctccgttcca	ccaccgcgcg	gcgccttgc	cagttttggc	caaaggagaa	18180
cccgggactg	ggtgacattg	cttcggcagc	ctgagcttcc	cccgtggcg	agctgctgtc	18240
tcaatccaac	ctagaaactc	cccgcaaaag	aaggggatga	gctctaggaa	gggcgagggt	18300
cccgaccggc	aacgaggaag	acaaccatc	gactccagct	ccctttgcac	taccatctgg	18360
ccctgcgcc	atgcgagata	cgctgtcgct	ccggtccgg	cgccacccac	ctgcaccccc	18420
tttgctgggt	ctccgcgcgc	ctcctggctg	cgtagccgcg	cccagctggc	cgctaagggc	18480
accgcgacgg	ccgcccggct	accgaggcct	ggcgccgcca	tgggacagct	cgcgctggca	18540
ccagcgagcc	acggcgcgtg	cgctgttgcc	ggcgccagcg	agcacaaccg	ccagctccaa	18600
gggcgagca	tgcactgag	ccgcgcgcgc	tgcgcgcccg	gccggctgca	cgtagccggc	18660
gcacacgacc	gcacgcgcgc	acgctccgc	tccgcgcgcg	aggcagcccc	atgccattgc	18720
cgcgcacctc	gcccgcgcgc	tgcgcgagcg	ccaccgcgca	ccttgctgag	ccgccaccgc	18780
cgtagccctagc	cgccctcgctg	cgccgcacag	ccagatccag	gcgcgggatg	gccggatccg	18840
gccttggggg	cgccggatcc	accgcctccc	cacaccgcca	cggcgtcacc	acctccgacc	18900
gcagttaggg	cttcgctcgtt	tgcctccatcc	tcatcgctgc	gaggaggaag	acgccaagaa	18960
aaaagggcct	cgccgctgcc	ttccttgctc	gctgcgggct	tcgcccgcgg	cgagctccgg	19020
cggcggcgag	gtgggggaga	agaagtgggg	agtgggcagc	taggggtttt	tcgcccccca	19080
agccgcccgt	gcgagagcga	cggtgggggg	gggggggact	ttccaacctc	ttccagtgtt	19140
ctagttctcc	acgttatgta	actcaatttg	tttaaccata	gaaagtaaga	aacctaccag	19200
cgtgttaagc	tctctttcat	tccctttctt	cttcctgggt	ttgcttccat	cacatgtcaa	19260
gtgaagggtt	cttaactacc	attactccta	cacatcta	ttttttctca	gatctttcgc	19320
aggtatata	tgatgtaca	ttttatgac	ttagataat	ctccttcaca	ttaccctctg	19380
ctgaaacttt	agcttgaacc	gtcatcttca	ccacaatttg	agcccaattt	gcacagagca	19440
caacgagcaa	tagcttgccc	ttacgttcat	tatttagcat	gaactactac	taactaccca	19500
agaatcaata	caccggttta	ataacgcct	tttatcacgt	taatatatgt	ttcattcaac	19560
acaccggttt	tggcacagtt	gcaaacttgc	aataaattct	ttcctacttc	tccatcccat	19620

aatataacaa	attggtatgt	ctcgtctggt	actaagttac	tatattatga	gatggaggga	19680
gcacttcttt	tcttccaaaa	tataagaata	tagtattgga	ttagatatta	tctagattca	19740
cgaattcgat	taggttgtct	agatttatag	ttgtatgtaa	tgtataattc	ggtaataggt	19800
tattacctct	caggatggag	ggagtagttt	tgactttttt	tttcttataa	atcgctttga	19860
tttttatatt	agtcaaattt	tatcgagttt	aactaagttt	atagaaaaaa	attagcaaca	19920
tttaagcacc	acactagttt	cattaaattt	agcatggaat	atattttgat	aatatatttg	19980
ttctgtgtta	aaaatgctgc	tatatttttc	tataaacgta	gtcaaattta	aataagttag	20040
actaaaaaaa	atcaaaacga	cttataatat	gaaatggagg	aagtagtaga	ctataacaaa	20100
tttaaaccgt	gctttgattt	tagagcatca	ctaatatggt	agcaataatc	tatccctaaa	20160
atttattttt	tttcctaaac	tgaaaatagg	aagtggaaat	actcctccat	ctaagagaga	20220
gcctaaattc	aataaaaaac	taaaaaacta	aaggtggatc	cctctattaa	actaccgcaa	20280
aaaatttatg	ttttttttct	cttccacgcg	cgcagaacag	atatctcgat	caagttagca	20340
tgtaaaattt	ttaaagagat	accttatacg	actccttccg	tatttccaaa	agcaaaccgga	20400
tttaaaatct	gactcaaata	aagatctata	tatccaattt	acatgacaca	tgtttcgccc	20460
aattttttata	ttataataaa	ttaatatttt	taaaatttaa	ttattagcaa	tttgtttgga	20520
ggattttatca	aaacaggatg	gacgttggtt	ataacagcgt	ctagacctag	acgcgcttgc	20580
aaactgcggc	caccctttta	tcacacaaat	ttttgacaat	ttgacacttt	ccaaaaatta	20640
attttataaa	ttaaccgtga	ccaaaactta	tttaaaaatg	atctttttgt	tgagcgcaaa	20700
atcgtatact	tcagcgccaa	atagcacggc	gocgacctcc	cccttccccct	ccccctctatc	20760
ctccactgct	gocgcccacc	tctccgtatc	agctgcgtcg	cgttggtttc	cgccggcgct	20820
gctgctgctg	caccagtcgc	ctagggcggg	cgggcatggc	gcgcgcgcgc	gcttcccgcg	20880
tccgcgcggg	cgctgttggc	gcccttcgct	cggagggtc	gacccaaggg	cgaggggggc	20940
gcacgggggg	cagtggcgcc	gaggacgcac	gccacgtgtt	cgacgaattg	ctccggcgctg	21000
gcagggggcg	ctcgatctac	ggcttgaact	gcgcctcgc	cgacgtcgcg	cgtcacagcc	21060
ccgcggccgc	cgtgtcccgc	tacaaccgca	tggcccagac	cggcgccgac	gaggtaactc	21120
ccaacttgtg	cacctacggc	attctcatcg	gttcctgctg	ctgcgcgggc	cgcttgacc	21180
tcggtttcgc	ggccttgggc	aatgtcatta	agaagggtat	tagagtggat	gccatcgcct	21240
tcactcctct	gctcaagggc	ctctgtgctg	acaagaggac	gagcgacgca	atggacatag	21300
tgctccgcag	aatgaccag	cttggctgca	taccaaattg	cttctcctac	aatattcttc	21360
tcaaggggct	gtgtgatgag	aacagaagcc	aagaagctct	cgagctgctc	caaattgatgc	21420
ctgatgatgg	aggtgactgc	ccacctgatg	tgggtgcgta	taccactgtc	atcaatggct	21480
tcttcaagga	gggggatctg	gacaaaagctt	acggtacata	ccatgaaatg	ctggaccggg	21540
ggattttacc	aaatgttgtt	acctacaact	ctattattgc	tgcgttatgc	aaggctcaag	21600
ctatggacaa	agccatggag	gtacttacca	gcatggttaa	gaatggtgtc	atgcctaatt	21660
gcaggacgta	taatagtatc	gtgcatgggt	attgtctctc	agggcagccg	aaagaggcta	21720
ttggatttct	caaaaagatg	cacagtgatg	gtgtcgaaac	agatgttgtt	acttataact	21780
cgctcatgga	ttatctttgc	aagaacggaa	gatgcacgga	agctagaaag	atgttcgatt	21840
ctatgaccaa	gaggggccta	aagcctgaaa	ttactacctt	tggtaacctg	cttcaggggt	21900
atgctaccaa	aggagccctt	gttgagatgc	atggtctctt	ggatttgatg	gtacgaaacg	21960
gtatccaccc	taatcattat	gttttcagca	ttctaataatg	tgcatacgct	aaacaaggga	22020
aagtagatca	ggcaatgctt	gtgttcagca	aaatgaggca	gcaaggattg	aatccggata	22080
cagtgcacta	tggaacagtt	ataggcatat	tttgcaagtc	aggcagagta	gaagatgcta	22140
tgcgttattt	tgagcagatg	atcgatgaaa	gactaagccc	tggcaacatt	gtttataact	22200
ccctaattca	tagtctctgt	atctttgaca	aatgggacaa	ggctaaagag	ttaattcttg	22260
aaatgttgga	tcgaggcatc	tgtctggaca	ctattttctt	taattcaata	attgacagtc	22320
attgcaaaga	agggagggtt	atagaatctg	aaaaactctt	tgacctgatg	gtacgtattg	22380
gtgtgaagcc	caatatcatt	acgtacagta	ctctcatcga	tggatattgc	ttggcaggta	22440
agatggatga	agcaacgaag	ttacttgcca	gcatggtctc	agttggaatg	aaacctgatt	22500
gtgttacata	taatactttg	attaatggct	actgtaaaat	tagcaggatg	gaagatgcgt	22560
tagttctttt	tagggagatg	gagagcagtg	gtgttagtcc	tgatattatt	acgtataata	22620
taattctgca	aggtttatgt	caaaccagaa	gaactgctgc	tgcaaaagaa	ctctatgtcg	22680
ggattaccga	aagtggaacg	cagcttgaac	ttagcacata	caacataatc	cttcatgggc	22740
tttgcaaaaa	caatctcact	gacgaggcac	ttcgaatgtt	tcagaacctt	tgtttgacgg	22800
atttacagct	ggagactagg	acttttaaca	ttatgattgg	tgcatgtgct	aaagttggca	22860
gaaatgatga	agccaaggat	ttgtttgcag	ctctctcggc	taacggttta	gtgccagatg	22920
ttaggaccta	cagtttaatg	gcagaaaatc	ttatagagca	ggggttgcta	gaagaattgg	22980
atgatctatt	tctttcaatg	gaggagaatg	gctgtactgc	caactcccgc	atgctaaatt	23040

ccattgttag	gaaactgtta	cagaggggtg	atataaccag	ggctggcact	tacctgttca	23100
tgattgatga	gaagcacttc	tccctcgaag	catccactgc	ttccttggtt	ttagatcttt	23160
tgtctggggg	aaaatatcaa	gaatatcata	ggtttctccc	tgaaaaatat	aagtccttta	23220
tagaatcttt	gagctgctga	agccttttgc	agctttgaaa	ttctgtgttg	gagttctttt	23280
ctcctacagt	cgtattagag	gagggatctt	ctctttatgt	gtaaatagcg	aggatgtat	23340
gtcacctctc	cgaattatit	ttactctggt	tcctagacgg	taaacaagca	attatgttct	23400
gcctttgatg	ccagaaaaaa	cacaaaagtt	tgtcgtttatc	tctactaacg	gatcataaag	23460
gaatttgtaa	ctggagtttc	aaacttaatt	tgtctaggca	gtagtttttg	cattagatcc	23520
aacatttgtg	aggattcatt	tgtgtgtatc	aatctatagg	gtttcattaa	atttcgttta	23580
tgtgtactgt	ttaggtgttg	aatagtttga	cttgtttttt	aactgaacaa	aagatactga	23640
aatcgttcca	ttcaacaaac	acatgttccg	ttaatgaaat	tattgtacgt	taccttttgt	23700
tttcttactc	acaagtgtcc	tcttttctta	tatcctatag	attggtacaa	caaattattg	23760
attcaatttt	ggttttgaac	attgatgac	ctccctgcac	tattggtgca	gctgctcttc	23820
tattcatttt	gtgaagtgat	gtgagtacct	ctcaatccca	tccttatgct	tctgtgcatg	23880
cttcattcca	attttttacg	catatcgatt	gttttctttt	atataacagt	ccataaagat	23940
aatcacatca	tgacaaagtt	atltattttct	acagtatagt	tatataagta	ttcaccagtt	24000
ttccatgaat	atltttggcat	gtgattacaa	agaagattat	ttgagaaaat	ccatgctttt	24060
atltcatcat	tttgtttgaa	gttgaacttt	aatttttggg	gtaaaatttc	gttattattg	24120
ctagcagctc	gtactcttta	atggtataac	ttcacttgtg	cttattctcc	aatatctccc	24180
ttcttggtgt	tcaggttcaa	gaaaatcatt	tgttggtatc	agaatctggt	gtccattttc	24240
ttcttaaatt	attaaatcct	ccagtgaatc	ttgttgattc	caaagcacca	tcgatagggt	24300
ccaaacttct	tggaaatcagt	aaagttcaaa	tgtttaatgg	atcaaataag	gattctgact	24360
gcatttcaga	ggaaatcctt	tcaaaagttg	aagagattct	cttaagctgt	caagtgatca	24420
agtcgctcga	caaagatgac	aagaaaacaa	caaggccaga	actgtgtcca	aagtggcttg	24480
ctttgttgac	aatggaaaat	gcatgcttgt	ctgctgtttc	agtagagggt	aagttttaat	24540
caaatttctt	ggtcatgatt	tccctttatg	accattatat	ttatttatat	gagccaaata	24600
agcagttgtc	aacttgtcat	aagttacata	gcacctatit	gcaatattca	tgggtgggtt	24660
gcttagccct	tttcttcacc	tgcttttgat	tgatgacttc	catctgtgtt	gcagaattga	24720
attggagtag	tggactgcac	tagaagcacc	tatggccatt	gtcatactag	gaagggtttc	24780
ccttatcaaa	tatttgattg	ttacagagac	ttctgacaca	gtgtccagag	ttggaggaaa	24840
ttttaagag	acattaaggg	agatgggagg	tcttgatagt	atltttgacg	ttatggtgga	24900
ttttcattca	acattggaga	tgagatctcg	ctaacatcgc	atattttaca	tttcccttgt	24960
tcaactctaa	tagattgtgc	aggcttggtc	cttttcgcca	ttttagcttt	aatgcgcttg	25020
aagccacatg	aaagtaatgc	ttgtccagat	acatagccaa	aggttgttat	atltttggggc	25080
atggaaaatg	cttgaggtag	taactatltt	catcaggaca	tggaattttg	gctgcaacac	25140
aaattatgtt	gtltttatgtt	gcaaaaatag	ctlttttaata	ctltttttatt	ctgcatgtgg	25200
tgttagtatc	ttacagtttc	tctgatgatt	atatccccc	cgataataac	acttgaaacg	25260
ataataacac	ttgacatatc	tacaccaagt	gaacattatt	cattttggatg	ttacttttcc	25320
agctatactt	gctgttcttg	catgtgtaag	caagtttgga	gtaaattgog	cattaattta	25380
aatgcttggt	gttccctatct	gtgtactttt	tattccccaa	ctaataatgc	aatcatatta	25440
cgctgataaa	ctgaataaat	aaattaacaa	tatacttctg	gtggcaaac	ttgtgtatca	25500
gaatctcata	aaggatacat	ccacttcagc	tttggaaccga	aatgaaggaa	catctttgca	25560
aagtgtctgt	ctcctcttga	aatgtttgaa	aatattggaa	aatgccatat	ttctaagcga	25620
tgataacaag	gtaatgtctc	ttatatgttc	tgtttcagtt	tagtacctat	ttccttcttc	25680
tgtactatct	tctctcctga	tttgttctgt	gcaaaatgtg	caaacagtgc	gactttgtat	25740
gtctgcttaa	caattttctt	ttcttcctga	aaaagcaata	tgaactctta	cattcatttt	25800
gcttcttgca	gacccatttg	cttaatatga	gtagaaaatt	gaaccogaaa	cgctccttgc	25860
tttcttttgt	tgggtgtcatt	atcaataacta	ttgagttatt	atcagggtatt	tttcttaata	25920
atacaatgtg	ttcgctaaca	caataaaaatg	ttttaaacat	ccagtatgtt	aaagttgcag	25980
tctgacgcct	atltttgtttt	gctgcagctc	tttcaatact	tcagaattct	tctgttggtt	26040
ccagctctac	atatccgaaa	tcgtctaaag	tctctcaaca	gagttactct	ggtaataaca	26100
aacaccaatt	ttgtttgatc	agttgatctc	gttggtcttt	ctatgcaactg	tctcaatata	26160
gtttggctgc	cattcaagtc	tactacaga	tgttgaaactt	ggcctgacac	caaataattta	26220
taaaatgcta	cctgatattt	ttaatatltt	atgtttcctg	acccagatta	tcttggttgg	26280
tcctcgata	agtttaatta	gtgacattct	tgaagctttg	ttatgcagca	gatgtcatgg	26340
ggggaacttc	attttaatgat	ggaaagagca	agaactcgaa	aaaaaaaac	ttttgtcgaa	26400
ccagacacgt	cattgttgct	tatcttcaaa	atcagaagtt	tctcatatta	ctatatcttc	26460

tggtagtgat	gctgggtctgt	cacagaaggc	attcaattgt	tctccattta	tatcaagcaa	26520
tggggcatca	agtgggtcat	taggcgagag	gcacagcaat	ggtagtggtt	tgaagttgaa	26580
tataaaaaag	gatcgtggca	atgcaaatac	aattagaggc	tcaactggat	ggattttcaat	26640
aagagcgcac	agttctgatg	ggaactccag	agaaatggca	aaaagactcc	gtctatctta	26700
aaatgtaatc	accgacagtg	gtgggtggta	tgacctttt	gcatttgacc	gccgcgtcgg	26760
cgtcgccacc	acgtaatcgc	ccacgtcgct	gccccgcgtg	ccacgtcgtc	gaccgcgcac	26820
ggtaatcaca	cgcattctga	ggccgcgcgt	agctgatata	ttctcatccg	gttgatttgt	26880
gattttggcg	tttttgcagt	ggtgatggcg	gggggcgacc	gtggccgagg	cgtggagtgc	26940
catccgcata	aggggtgtatc	ggccgcgcgtg	ctccgcctctg	gtccgcaggc	tttggcggcg	27000
agctggcggc	ggagggagac	tgtggtgaga	tggatttctg	ccgctggtgg	tgtcgctacc	27060
atgggggatt	cgccgcaggc	gctctcaggt	ttgcagcctc	ctccactctc	ttcccttttt	27120
tatttttttt	tctcgcaaaa	tgtgttgtga	tgttcgtctc	gctgggctgg	cctcatagcc	27180
attaatgtag	tttgctggaa	catttacatt	tggaaagctt	ttggcaattg	ctttacaaaa	27240
tgtggaattg	tggaggggag	aaaaatcatt	tgaacctgca	gtgacaaaat	tgccatctct	27300
aattttaaaa	ctgaaggtgt	ggaaatcaaa	cataatcatt	gccagcgcac	cattcttgtt	27360
aaccaccatg	atatatttgt	ggttataaca	gttagctcca	caccaacctt	gaaggtgtca	27420
atagaattgt	tagtataaat	tgaggagaa	aggcagttgt	taagactttc	taaagaactt	27480
gtagcagcta	atactagcta	ttgtgcattt	gtgtttcatg	gaatttgagc	agcaatggat	27540
atttcttact	aagatgtatg	atgcaaaa	aaaaactatg	tctatacagt	ttacatgtaa	27600
tgtgcggatg	caaataaaa	catgtacatg	gacaaaactca	tgggattcat	accgaattcc	27660
agaattgcat	ttcttatgtg	gttacttttg	ttgttgattt	ggttaccaga	catcgatgtg	27720
atttcaaggg	tcagaggggt	ttgcttctac	gcggtggctg	cagttgcagc	aatctttttg	27780
tttgtcgcca	tggttgttgt	tcattccactt	gtgctcctat	ttgaccgata	ccggaggaga	27840
gttcaggaaa	aaaatttgaa	aatacccatt	ttttgaaaaa	gatttacgtt	tatatacact	27900
agtatgaaga	atttgcgaaa	atataactaa	tccgcagatc	ggttatgcgg	gagcgcaaca	27960
aaagtatggc	gtggcggcgc	ggagtggacg	gccgaggcgt	tcgcgcggaa	tggggctgcg	28020
ggaccgagcc	agtctcgctt	gccggtaacg	cggaaaccgt	acgctcccgc	agcgccagtg	28080
tgcggaaccg	cggcgccaac	atttttttac	tgcattggcac	tgtgtttaat	actgtttgac	28140
actgtttctg	gtactgtttt	acacagttcc	cgggtcagtt	ccgcacaatg	gaggcgcggc	28200
accgaccatg	aacaatgtgt	gaacagtgtc	gcacagggtt	aaaacagtgt	ataaaactgcg	28260
ctgcacagtg	ctggagtgcg	tggccactgc	ggttccgcgt	tttggaaccg	cgggaccgtc	28320
gcgattccgc	gttttgagac	tgcgggacca	tgacggttcc	gcgcaggatc	gtcgggtccc	28380
tattttgaat	ctgcggaacc	gtcgctgtcc	cgcgtttcca	tttcgcggga	tgcgtatatt	28440
tttataaaa	ctctccatgc	atgtatataa	acataaaatta	ttgaaaaaat	aagtatattt	28500
gcaaattttt	ttcgagagct	cagcactaca	ttgcaaagat	ttgggcaact	ctgacaattt	28560
ccatgtttta	cagacttgac	gtcgagggaa	tggagaacct	gccaccgaat	agtagccctg	28620
ctatctatgt	tgcgaaccat	cagagttttt	tgatattcta	taccttcta	actctaggaa	28680
ggtgtttcaa	gtttataagc	aagacaagta	tatttatgtt	ccgaattatt	tgatgggcaa	28740
tgtatctctt	aggagtaatt	cctttgcggc	gtatggacag	caggagccag	ctggtatggc	28800
tgtagtctca	tccctgcttt	cttaagtaga	catatatgca	attacagaat	ttggtaaaca	28860
aacaagattt	tatgaatcat	atatgatttt	ggggaaaaca	ccaaactctc	tttgggtggc	28920
gccttgaaca	tagttctatt	cacacagtta	tagcaccttc	tttaaaatga	agaactttgt	28980
tgcatacaca	tatggccaaa	ccacataatg	aattttgttt	atttctatct	ttgaatgtta	29040
gcaccttatt	ttcatgcata	tcattgcta	ttgcttgccc	acgttgagtg	ggaatttttt	29100
tccatgtttt	ataattttata	tatgttctag	acttctagtc	cacaatttat	ctacttcatg	29160
ttcctgagcc	tctagtatgg	ctggtagcag	actaggtgct	gagtgtctgtc	cattttttgca	29220
gactgaagag	aggagaaata	caggactgtc	cgttggttagt	cagattttgta	aaaatagact	29280
ctgatgtagt	ttatttttagc	ccctattttta	tattttaacaa	tacaaatata	taacgtatcc	29340
taagaactta	tcgtaattta	ggagaagttg	ctcgtttcat	taaattaaac	tgtgaagtaa	29400
aaatgtgtgc	tcgagtctgt	caatgcaatc	ctgtgttctt	gtttgaagat	atggtgtagg	29460
gcaggctagg	atcgaaact	gaatggtaag	actgcttctg	ccttcatttg	tgcacttggg	29520
gctgccacgc	cgattaaagca	gtagaacaaa	gtaattttgt	cgtgcacaaa	tgagttatat	29580
ttcattgaaa	atcgaagtga	aaatgaacca	aaagatagaa	gaaaagggga	aacttggtaa	29640
ttatatactc	cacaaattta	ttggtaagat	ttgatattag	acgctcgatt	acttggctta	29700
agtttaaggat	atcaaatttg	gggaagcacc	aaaggaatta	ttgtgaagga	gttgtgggtg	29760
cataacgtta	tctactagtt	caaactctag	tgactatgaa	tattaatgag	taaggtaagg	29820
gattttattgt	taatttttagt	ttctttaaga	ttgtgtccga	gtacaccatt	cggtaagtgt	29880

aataatgttt	tgtattggat	tcacitgtgt	tacgtgcatg	tgcttttacc	ttttcatttg	29940
tttctgcgtt	ctgggtatga	atitgacgag	attccatggt	cagctcaaca	tatcagttac	30000
tgcggtgtcaa	gcgatcttat	atgggtatgcg	cacaagcgat	tgtatacggg	tatgacagta	30060
taatgtgtga	tattgatacg	atgttccttt	cctttataaa	ggaacaaaga	ctttttttaa	30120
aaaaagaagg	ggtattacta	aaaacccaaa	tgtcaaaaac	aaaatatcag	tgacatggc	30180
aagtgtgcac	gagcaatagc	ttgcccttac	gttcattatt	tagcatgtac	tactactaac	30240
tacgcaaaaa	tcaattcacc	gattattaaa	ctgttaacat	catttttagca	cgttaacata	30300
tgtttcattc	aacacaccgg	ttttggcaca	tttacaact	tgcaaagttg	caatactccc	30360
ttcgttacat	agcataagag	atittaggtg	aatgtgacac	atctatccaa	attcattata	30420
ctagaatgta	tcaccgcctc	cacgcgggga	gggagagcgc	cgccggtgga	gaaaggggga	30480
gggagtggtc	gaggggaacc	agtaggggtg	cctccccgtc	gccgcctccc	cgtggccgcg	30540
ccggcgagac	aggaggaaga	gggggagatg	gagcggcgcc	gccggtgagg	gcgcgcgtgc	30600
gcgggggggg	ggggggggga	gcggcgacgc	cggtgaggaa	gggaagggga	gtggtggctt	30660
tgagagagat	aggggagagg	gaaaatgatt	ttagagttag	ggtttgggct	gctgagtttt	30720
tatatagatc	gggatcaatc	aggaccgtcc	atcagatcgg	acaactacgg	tttctcccgc	30780
gttggggccg	gtgccactcc	taggttgccc	acactattgg	gccacatgta	cgctccgcgt	30840
gaaataagtt	ccttttaggt	cctttaagtt	gcctctgaat	tgttcccagg	ccggccgcac	30900
tattgggcca	ccccataggc	catgtgtacg	ctccgcacag	aataatttcg	ctttagctcc	30960
cttaatttgt	cccctcaaac	ttctaaaacc	agtgc aaatc	tttaattttt	agttcaccga	31020
ttgcaactca	cgggcatatt	tgctagtgc	atataatatg	aaacgaagga	tgtagcagac	31080
tatagaattt	aaactgtgct	ttcatttttag	agcatcacta	actgttattt	agattttttat	31140
ttaaataaat	gcagaaatga	tgttttttatt	atgaaaatta	gcaataaagc	tcccaaaatt	31200
tcaaaaaaaa	attaaaagag	atttattaat	catggttaat	ttaattaaaa	attaaatcta	31260
accatatcat	attattttcac	ggtcogtgat	gaggaaatgg	cagctgctat	cacttatggt	31320
gggagagaag	gggcattgtt	tattttttata	actatctctt	ataactccca	tgaaactata	31380
aaataaatat	aatcattatc	ataacattag	tttttttcca	ttgcaacgca	agggttaattt	31440
ttcagtaaaa	taaaaaaata	aaagtgggccc	attctgaacg	gaaattttctg	gttttttttc	31500
ccaagagcgc	cgcacacaac	tgcgcaagag	atcgatcgcg	atcacccctgc	tcgtcgccga	31560
tctcctacac	catccctgcc	atctccttcc	cctccactgg	ctgctgctgc	acctgtcagc	31620
tagggcgggc	atggcgcgcc	gcgcgcgttc	ccgcgcgtgt	ggcgcccttc	gctcggaggg	31680
ctcgatccaa	gggagagggg	gccgcgcggg	gggcagtggc	ggtggcgcg	aggacgcacg	31740
ccacgtgttc	gacgaattgc	tccgtcgtgg	cataccagat	gtcttctcct	acaatattct	31800
tctcaacggg	ctgtgtgatg	agaacagaag	ccaagaagct	ctcgagctac	tgacataaat	31860
ggctgatgat	ggaggtgact	gcccacctga	tgtggtgtcg	tacagcaccg	tcacataggt	31920
cttcttcaag	gagggggatc	tggaacaaac	ttacagtaca	tacaatgaaa	tgcttgacca	31980
gaggatttcg	ccaaatgttg	tgacctacaa	ctctattatt	gctgcgctat	gcaaggctca	32040
aactgtggac	aaggccatgg	aggtacttac	caccatgggt	aagagtgggtg	tcacgcctga	32100
ttgcatgaca	tataatagta	ttgtgcatgg	gttttgctct	tcagggcagc	cgaaagaggg	32160
tattgtattt	ctcaaaaaga	tgcgagtgga	tggtgtcgaa	ccagatgttg	ttacttataa	32220
ctcgctcatg	gattatcttt	gcaagaacgg	aagatgcacg	gaagcaagaa	agatttttga	32280
ttctatgacc	aagagggggc	taaagcctga	aattactacc	tatggtaccc	tgcttcaggg	32340
gtatgctacc	aaaggagccc	ttgttgagat	gcatgggtct	ttggatttga	tggtacgaaa	32400
cggtatccac	cctaattcatt	atgtttttcag	cattctagta	tgtgcatacg	ctaaacaaga	32460
gaaagtagaa	gaggcaatgc	ttgtgttcag	caaatgagg	cagcaaggat	tgaatccgaa	32520
tgacgtgacg	tatggagcag	ttataggcat	actttgcaag	tcaggcagag	tagaagatgc	32580
tatgctttat	tttgagcaga	tgatcgatga	aggactaagc	cctggcaaca	ttgtttataa	32640
ctccctaatt	catggtttgt	gcacctgtaa	caaatgggag	agagctgaag	agtttaattct	32700
tgaaatgttg	gatcgaggca	tctgtctgaa	cactattttc	tttaattcaa	taattgacag	32760
tcattgcaaa	gaagggaggg	ttatagaatc	tgaaaaactc	tttgacctga	tggtacgtat	32820
tggtgtgaag	cccgatatca	ttacgtacag	tactctcacc	gatggatatt	gcttggcagg	32880
taagatggat	gaagcaacga	agttacttgc	cagcatgggtc	tcagttggaa	tgaaacctga	32940
ttgtgttaca	tatagtactt	tgattaatgg	ctactgtaaa	attagcagga	tgaaagatgc	33000
gttagttctt	tttagggaga	tgagagcag	tggtgttagt	cctgatatta	ttacgtataa	33060
tataattctg	caaggtttat	ttcaaacag	aagactgtct	gctgcaaaag	aactctatgt	33120
cgggattacc	aaaagtggaa	ggcagcttga	acttagcaca	tacaacataa	tccttcatgt	33180
actttgcaaa	aacaaactca	ctgatgatgc	acttcggatg	tttcagaacc	tatgtttgat	33240
ggatttgaag	cttgaggcta	ggactttcaa	cattatgatt	gatgcattgc	ttaaagttgg	33300

cagaaatgat	gaagccaagg	at ttgtttgt	tgctttctcg	tctaacgggt	tagtgccgaa	33360
ttattggacg	tacaggttga	tggtgaaaa	tattatagga	caggggttgc	tagaagaatt	33420
ggatcaactc	tttctttcaa	tgaggacaa	tggtgtact	gttgactctg	gcatgctaaa	33480
tttcattgtt	agggaaactgt	tgagagagg	tgagataacc	agggctggca	cttacctttc	33540
catgattgat	gagaagcact	ttccctcga	agcatccact	gcttccttgt	ttatagatct	33600
tttgtctggg	ggaaaatatc	aagaatatca	tagattttctc	cctgaaaaat	acaagtcctt	33660
tatagaatct	ttgagctgct	gaagcatttt	gcagctttga	aattctgtgt	tgggaattctt	33720
ttctcctaca	gtccgattag	aggagggatc	ttctctgtat	gtgtaaatag	cgagggtatgt	33780
atgtcacctc	tccgaattat	tttgactgtg	gttcctggac	tgtaaacaag	ctattatctt	33840
ctgggtgttg	tgccagaaaa	aacacaaaag	tttgtcgtta	tctctactaa	cggatcataa	33900
aggggtttgt	aactggagtt	tcaaacttaa	ggtatctagg	cagtaggtat	atattgatcc	33960
tacatcttat	gatcttaaga	tgatatcctt	ctcattatcc	tctgctgaaa	ctttagcttg	34020
aaccgtcatc	tacaccacaa	tttgagcccc	ttagcacaga	gcacaacgag	caatagcttg	34080
cccttacggt	cattattttag	catgcactac	tactaactac	ccaataatca	atacatcggg	34140
tattaaactg	tttgtacagt	ttaataatgt	catttttatca	cgttaacata	tgtttcattc	34200
aacaccacac	cggttttggc	acagttgcaa	acttgcaata	acattttttac	tacttctccg	34260
ccccataata	taacaatctc	gttccatact	atattgctat	attacaggat	ggatgaagta	34320
cttcttttct	tccaaaatat	aagaatctag	tactagatta	gatattattt	ggattcacga	34380
atttgattag	gctgtctaga	tttgtagtcg	tatgtaatgt	ctaattcggg	aataggttat	34440
tacctctttg	gatggaggga	gtagttttta	tttcgtactc	cctccgtttc	atattataag	34500
ttgttttgac	ttttttctta	gtcaaatttt	attgagtttg	attaaattta	tagaaaaaaa	34560
ttagcaacat	ttaagcacca	cattagtttc	attaaatgta	gcatggaata	tatttttata	34620
atatgtttgt	tttttattaa	aatgctacta	tattttttcta	taaatgtagt	caaattttaa	34680
gaagtttgat	tatgaaaaaa	tcaaaatgac	atataatatg	aaactgagga	tgtagcagac	34740
tatagcaaat	ttaaactatg	cttttatttt	agagcatcac	caaaagatta	gcaataattt	34800
atccctaaaa	ttcaagtttt	gggtttctta	aactgaaaat	aggaagtga	aaatcttttc	34860
cgtccaagag	atagcctaaa	tcttatctta	actaatttaa	atattcataa	ttttcctttc	34920
gtcacattaa	attttctgtc	gtaaatctga	ttgaaatcca	attggacaat	ccaaaaata	34980
gagaaaaaga	acagaaaaaa	taataaaaag	cacacaaatc	ttatctcaat	cccgcgggaa	35040
gctgccgacg	ccgccgaatc	cgctcgagcg	ccgccgcgcg	cgctcacggg	gaacgatgtc	35100
gctgctgtcg	cacgcggtat	gggagggcgc	cgctgccact	gcttgggaga	taggatatgg	35160
agagagaagg	aatgttgagg	gttaggggta	ggtttttccc	cgtccgtatc	ttcagcgaca	35220
cggaggcgat	ccaagctgtc	catcagatcg	gacggctcag	aatgcctcca	t'cgtcgggcc	35280
gcgcattgct	gatgggcccga	gggaaggccg	gagggctcga	caaacgcaat	caaaggagga	35340
gttgaggagg	gtaaattaga	at ttatttgc	gggctgagat	agtaaatgga	ctgaaaatgg	35400
cccatagaga	taattgggaat	tttattttaa	taaatgttga	aaagggtgtt	atattatcaa	35460
aaattaaaaa	taagctccga	aaatttctaa	aaatattcaa	agagcattat	taatcatggg	35520
taattttaata	aaaatttaaat	ccaaccatat	catattattt	cacggcgcgc	ggtaggaaaa	35580
tgcgagctg	ttgtcgttta	cggtgggaga	gaagggacat	tgtttatttc	cagaactatc	35640
ttttataact	cccatggaac	tttaaaataa	atataatcat	tattatagca	ttagtttttt	35700
tctgtctttt	ttttcccaa	gagcgccgcg	cagaagagat	cgatcgcgat	ctccctgccc	35760
cgacgtcgcc	ggccgatctc	tcattctctc	cacgcctctc	tcgtcgccga	tctcctacac	35820
catccctgcc	atctcctcct	tccctccccc	tctatcctcc	actgggtgccg	cccacctctc	35880
cgtataagac	aaactgcgtt	gcggcggttg	tttccgcgcg	cgctgctgct	gcacctgtca	35940
gctagggcag	gcatggcgcg	ccgcgcgcgt	tccgcgcgtg	ttggcgccct	tcgctcggac	36000
ggctcgatcc	aagggcgagg	aggccgcgcg	gggggcagtg	gcgcgcgagga	cgcacgccac	36060
gtgttcgagg	aattgctccg	gcgtggcagg	ggcgccctcga	tctacggctt	gaaccgcgcc	36120
ctcgccgacg	tcgcgcgtca	cagccccgcg	gccgcgcgtg	cccgcctaaa	ccgcatggcc	36180
cgagccggcg	ccggcaaggt	aactcccacc	gtgcacacct	atggcattct	catcggttgc	36240
tgctgccgcg	cgggccgctt	ggacctcggt	ttcgcgccct	tgggcaatgt	cgtcaagaag	36300
ggatttagag	tggaaagccat	caccttcact	cctctgctca	agggcctctg	tgccgacaag	36360
aggacgagcg	acgcaatgga	catagtgtct	cgcagaatga	ccgagctcag	ctgcatgcca	36420
gatgttttct	cctgcaccat	tcttctcaag	ggtctgtgtg	atgagaacag	aagccaagaa	36480
gctctcgagc	tgctgcacat	gatggctgat	gacgaggag	gaggtagcgc	acctgatgtg	36540
gtgtcgtata	ccactgtcat	caatggcttc	ttcaaagagg	gggattcaga	caaagcttac	36600
agtacatacc	atgaatgctt	tgatcggagg	at ttcaccag	atgttggtgac	ttacagctct	36660
attattgctg	cgttatgcaa	gggtcaagct	atggacaaa	ccatggaggt	acttaccacg	36720

atgggttaaga	atgggtgtcat	gcctaatttgc	atgacatata	atagtatttct	gcatggatat	36780
tgctcttcag	agcagccgaa	agaggctatt	ggatttctca	aaaagatgcg	cagtgatggt	36840
gtcgaaccag	atgttggttac	ttataactcg	ctcatggatt	atctttgcaa	gaacggaaga	36900
tccaccgaag	ctagaaagat	ttttgatttct	atgaccaaga	ggggcctaga	gcctgatatt	36960
gctacctatt	gtacctgtct	tcaggggtat	gctaccaaag	gagcccttgt	tgagatgcat	37020
gctctcttgg	atttgatggt	acgaaacggc	atccaccctg	atcatcatgt	attcaacatt	37080
ctaataatgtg	catacgctaa	acaagagaaa	gtagatgagg	caatgcttgt	attcagcaaa	37140
atgaggcagc	atggattgaa	tccgaatgta	gtgacgtatg	gagcagttat	aggcatactt	37200
tgcaagtcag	gcagtgtaga	cgatgctatg	ctttattttt	agcagatgat	cgatgaagga	37260
ctaaccacct	acattattgt	gtatacctcc	ctaattcata	gtctctgtat	ctttgacaaa	37320
tgggacaagg	ctgaagagtt	aattcttgaa	atgttggatc	gaggcatctg	tctgaacact	37380
atcttcttta	attcaataat	tcacagtcac	tgcaaagaag	ggagggttat	agaatctgaa	37440
aaactctttg	acctgatggt	acgtattggt	gtgaagccca	atgtcattac	gtacagtact	37500
ctcatcgatg	gatattgctt	ggcaggtaag	atggatgaag	caacgaagtt	actctccagc	37560
atgttctcag	ttggaatgaa	acctgattgt	gttacatata	atactttgat	taatggctac	37620
tgtagagtta	gcaggatgga	tgacgcatta	gctcttttca	aagagatggt	gagcagtggg	37680
gttagtccta	atattatttac	gtataacata	attctgcaag	gtttatttca	taccagaaga	37740
actgctgctg	caaaagaact	ctatgtcggg	attacaaaaa	gtggaacgca	gcttgaactt	37800
agcacatata	acataactct	tcattgggctt	tgcaaaaaca	atctcactga	cgaggcactt	37860
cgaatgtttc	agaacctatg	tttgacggat	ttacagctgg	agactaggac	ttttaacatt	37920
atgattgggtg	cattgcttaa	agttggcaga	aatgatgaag	ccaaggattt	gtttgcagct	37980
ctctcggcta	acggtttagt	gccagatggt	aggacctaca	gtttaatggc	agaaaatctt	38040
atagagcagg	ggttgctaga	agaattggat	gatctatttc	tttcaatgga	ggagaatggc	38100
tgtactgcca	actcccgcat	gctaaattcc	attgttagga	aactgttaca	gaggggtgat	38160
ataaccaggg	ctggcactta	cctttccatg	attgatgaga	agcacttttc	cctcgaagca	38220
tccactgctt	ccttggtata	gatcttttgt	ctgggggaaa	atatcaagaa	tatcatagat	38280
ttctccctga	aaaatacaag	tccttttatag	aatctttgag	ctgctgaagc	atcttgcagc	38340
tttgaaattc	tgtgttgtaa	ttcttttctc	ctacagtccg	attagaggag	ggatcttctc	38400
tgtatgtgta	aatagcgagg	tatgtatgtc	acctctccga	attattttga	ctgtggttcc	38460
tggactgtaa	acaagctatt	atcttctggt	gttgatgcca	gaaaaaacac	aaaagtttgt	38520
cgttatctct	actaacggat	cataaagggg	tttgttaactg	gagtttcaaa	cttaagggtat	38580
ctaggcagta	gttttgacat	tagatccaac	attgtgtagt	attcatttgt	gtgtatcaat	38640
ctatagggtt	tcattaaatt	tcatttgtgt	actgttttagg	tgttgaatat	attgttttac	38700
ttgtttttta	actgaacaaa	agatagctga	agctttgttc	tttaccaaat	gcagtagtga	38760
tcatacacaat	atattttttt	acggaacagg	agattgtata	aaatggtttc	catcggcggc	38820
caacggcgac	cgctctgtct	tgaccaccca	cccaatccat	ccatccactc	gccgcggccc	38880
ctgactccaag	cctccgcgcg	gcgacagcga	cgcaccgcgc	tcgagaggag	gaggcgtgag	38940
cccatggggg	accctcctcc	ggcgcggtaa	tgcgcgtgca	cggtaaccac	gcgcctctcg	39000
aggcctccgc	cgctagctga	tctcttctca	tcctgttttg	gtttgggttt	gtgatttggg	39060
tgttttttcc	gcagcgggtg	tgggtggtggt	ggttgcggcg	ggagggggcg	gtggccgcgg	39120
ccgtggcgtg	gagtgccagc	tgcatcgggt	gcaccgcgcg	cggggtccgc	agggtgtggt	39180
ggcgacggcg	agctgaggag	gcggaggggag	actggtgagg	gacacaggca	ggcaggctct	39240
caaggctaag	cttgttacag	gtactgagac	tagttactaa	ttactttgat	aatcagtata	39300
aataagcttg	tgtagtgtaa	tggcattgtg	catttctgca	cttgtaaatt	ttacagaaga	39360
tggtcattca	atttgaacct	gcattctaata	ttttagtggg	ttgagtttat	tctcccagtc	39420
acagagttga	agaggcaagt	aacctgtaag	agaggactga	acattaacac	ctcttgttcg	39480
attaaaaatg	accaaagagc	atcaaacatg	tattcgaggc	tgttacttta	atatggccca	39540
ttaatttggt	tagttggcta	tgtacatcct	agttgggtgca	gtgttgtgga	aaacggaata	39600
cgggtgtcgg	atggacgagg	tgccgtcaag	cgattaatcg	taatacggat	gattaaacgg	39660
aattatatgg	atctttggcg	ttcgactata	gatgtacata	attgatgtta	atggcaatgg	39720
tggagacaaa	atgcatcatc	ttataaaaaa	atatttgtat	aaatctctaa	ctatattatg	39780
aaaatgccat	ttatttagttc	aatagatatc	aacactgatg	gttagtagcg	caatagcatt	39840
gggcttggtta	gtcaaaaatag	tgacgctggg	ctgcaagttg	caagtttatg	ttagtttcat	39900
aaacagacat	ctgatttgtc	gataaataac	cgactaatcg	tgccatacaa	ctgtataatt	39960
actctgaat	agtaattgtt	ctccgacttg	atgatacggg	acgggtctggc	taccgtttcc	40020
gttttgacag	acgattaaac	ggctgtgccg	gtcgacttcc	acaacactga	gttgggtgaa	40080
atgccagtta	ccatttctat	gatctaaaat	aatcaactct	tttagtatat	tttcaaaaac	40140

gaaaattcag	tacacatgca	tgaatcttaa	tcttcatatc	tagctcgtta	caaaatcaac	40200
aaaggcaccg	tgtcagctgg	tgacatttag	ctagtctgta	cttagcatta	tccactagca	40260
ccttattttt	atgcatatca	tgctaatttg	cttgcccacg	ttgagtggga	atttttttcc	40320
atgttttata	atttatata	gttctagact	tctacttcat	gttcctgagc	ctctagtatg	40380
gctggtagca	gactaggtgc	tgaatgctgt	ccttttttgc	agactgaaga	gaggagaaat	40440
acaagactgt	ccgttggttag	tcagatttgt	aaaaatagac	actgatgtag	tttatttttg	40500
cccctatttt	ataatttaaca	atacaaatat	ataacgtatc	ctaagaattt	atcgtaattt	40560
aggagaagtt	gctcgtttca	ttaaattaaa	ttgggaagta	aaaatgtgtg	ctcgagtatg	40620
tcaatgcaat	cctgtgttct	tgtttgaaga	tatggtgtag	ggcaggccag	gattgaacac	40680
tgaatggtaa	gactgcttct	gctttcagac	gttattgcta	aattttttagc	tagttgcaat	40740
tagtgctgtc	acgccgatta	agcagtagaa	caaagtaatt	ttgtcgtgac	aaatgagtta	40800
tatttctttg	aaaatcgaag	cgaaaacgaa	ccaaaagata	gaagaaaagg	gaaacttggt	40860
aattactcca	caaagagaac	aaattttattg	gtaagatttg	atatgagatg	ctcgattact	40920
tggcttaagt	taacaatatc	aaatttgagg	aagcaccaaa	agaattattg	tgacttaagt	40980
taaagatatc	aaatttgagg	aagcaccaaa	ggaattattg	tgatggagtt	gtgggtgcat	41040
aacgttattt	gctttgttca	aatcctagtgt	actatgaata	tgaatattaa	tgcgtaaggt	41100
aaggaattta	ttgttaattt	taggttcttt	acgattgtgt	ccggggacgc	cattcggtaa	41160
ctgtaataat	gttttgtatt	ggattcactt	gtgttacctg	cacgcactaa	acatgtgctt	41220
taccttttca	tttgtttgtg	cgttctgcgt	ttgaatttga	cgagattcca	tggtcagctc	41280
aacatgtcag	ttactgcgtg	tcaagcagtt	actgcgtgtc	aagcgatctt	atatggtatg	41340
cgcacaagcg	attgtatacg	gatattgacag	tataacgtgt	gatattgatt	tttttatata	41400
aaaaaatacg	atgttacttt	ccttcataaa	ggaacaaaga	cttttttttt	aaaaaaaaga	41460
aggggtatta	ctaaaaacaa	aaatgtcaaa	aacaaaatat	cagtgcacat	ggcaagtgtg	41520
ctcggcaatt	ttttgtctgt	actttaaaaca	aaaatatattc	tatatggtat	tttttacaag	41580
ggtgtcacia	atatttttaa	ttagccaaac	atctgcattt	tattaaaaac	tgtataaatt	41640
ataatttata	ctctaaaagg	ttgtgtacat	ctctcttgga	gaaaatgtat	aagttgcgaa	41700
caaacattaa	tccacgttat	ataagtcaat	ctgttattta	accatagaaa	gtaagaaacc	41760
tactagcgtg	ttaagctaag	ctctctttca	ttctctttct	tcttctcgtt	tttgcttcaa	41820
tcacttgtca	agtgaagggt	tcttaactac	cattactcct	actcaccaaa	tttttttctc	41880
agatctttcg	taggtatata	ttgatccctac	atcttatgat	cttaagatga	tatccttctc	41940
attatcctct	gctgaaactt	tagcttgaac	cgatcatctac	accacaattt	gagccccctt	42000
gcacagagca	caacgagcaa	tagcttgccc	ttacgttcat	tatttagcat	gcactactac	42060
taactaccca	ataatcaata	catcggttat	taaactgttt	gtacagttta	ataatgtcat	42120
tttatcacgt	taacatatgt	ttcattcaac	accacaccgg	ttttggcaca	gttgcaaaact	42180
tgcaataaca	tttttactac	ttctccaccc	cataatafaa	caatctcgtt	ccatactaga	42240
ttgctatatt	acgggacgga	tgaagtactt	ctttccttcc	aaaatataag	aatatagtac	42300
tagattagat	attatttggg	ttcacgaatt	tgattaggct	atctagattt	gtagtcgtac	42360
gtaatgtcta	attcggtta	aggttattac	ctctttggat	ggagggagta	gttttttatt	42420
cgtactccct	ccgtttcata	ttataagttg	ttttgacttt	tttcttagtc	aaattttatt	42480
gagtttgact	aaattttatag	aaaaaaatta	gcaacattta	agcaccacat	tagtttctatt	42540
aaatgtagca	tggaaatata	ttttataata	tgtttgtttt	tttattaaaa	tgctactata	42600
tttttctata	aatgtagcca	aattttaaaga	agtttgatta	cgaaaaaaa	tcaaaatgac	42660
atataatatg	aaactgagga	tgtagcagac	tatagcaaat	ttaaactatg	cttttatttt	42720
agagcatcac	caaaagatta	gcaataattt	atccctaaaa	ttcaagtttt	gggtttctta	42780
aactgaaaat	aggaagtga	aaatcttttc	cgtccaagag	atagcctaaa	tcttatctta	42840
actaatataa	atattcataa	ttttcctttc	gtcacattaa	attttcgtcc	gtaaatccga	42900
ttgaaatcca	attggacaat	ccaaaaaata	gagaaaaaga	acagaaaaaa	taataaaaag	42960
cacacaaatc	ttatctcaat	cccgcgggaa	gctgcgcagc	ccgcggaatc	cgctcgagcg	43020
ccgcgcgcgc	cgccgcgcgt	cacggggaac	gatgtcgcgtg	ctgtcgcacg	cgggtatggga	43080
gggcgcgcgc	gccgctgctt	gggagatagg	atatggagag	agaaggaaat	gtgagggagg	43140
gttaggtttt	tccccatccg	tatcttcagc	gacacggagg	cgatccaagc	tgtccatcag	43200
atcggacggc	tcagaacgcc	tccatcgtca	ggccgcgcgt	gcttgatggg	ccgaggggaag	43260
gccggagggt	cgaacaaacg	cagtcagagg	aggagttgga	ggaggttaaag	tagaatttat	43320
ttgcgggctg	agatagtaaa	tggaactgaa	atggcccata	gagaaattgg	gaattttatt	43380
taaataaattg	ttgaaaaggc	gtttatatta	tcaaaattag	aaattaagct	ccgaaaattt	43440
taaaaaatat	tcaaagagca	ttattaatca	tgattaattt	aatataaatt	aaatccaacc	43500
atatcatatt	atttcacggc	gcacggtagg	aaaatgcgca	gctgttgcgc	ctgacgggtg	43560

gagagaagg	acattgttta	tttccagaac	tattttttat	aactcccatg	gaacttttaa	43620
ataaatataa	tcattattat	agcattagtt	ttttttctgtc	ttttttttcc	ccaagagcgc	43680
cgcgacagaag	agatcgatcg	cgatctccct	gccccgacgt	cgccggccga	tctctcattc	43740
tctccacgcc	ctgctcgctcg	ccgatctcct	acaccatccc	tgccatctcc	tccttcccct	43800
ccctctatc	ctccactggt	gcccgcacc	tctccgtata	agacaaactg	cgttgcggcg	43860
ttggttttccg	ccggcgctgc	tgctgcacct	gtcagctagg	gcgggcatgg	cgcgccgcgc	43920
cgcttcccgc	gctgttgccg	cccttcgctc	ggacggctcg	atccaagggc	gaggaggccg	43980
cgcggggggc	agtggcgccg	aggacgcacg	ccacgtgttc	gacgaattgc	tccgccgtgg	44040
cagggggcgcc	tcgatctacg	gcttgaaccg	cgccctcgcc	gacgtcgcg	gtgacagccc	44100
cgcgggccgc	gtgtcccgt	acaaccgcac	ggcccgagcc	ggcgccgacg	aggtaactcc	44160
cgacttgtgc	acctacggca	ttctcatcgg	ttgtgtgtgc	cgcgcgggcc	gcttggacct	44220
cggtttcgcg	gccttgggca	atgtcattaa	gaagggattt	agagtggacg	ccatcgccct	44280
cactcctctg	ctcaagggcc	tctgtgccga	caagaggacg	agcgacgcaa	tggacatagt	44340
gctccgcaga	atgaccgagc	tcggctgcat	accaaagtgc	ttctcctaca	atattcttct	44400
caaggggctg	tgtgatgaga	acagaagcca	agaagctctc	gagctgctgc	acatgatggc	44460
tgatgatcga	ggaggaggta	gcccacctga	tgtggtgtcg	tataccactg	tcatcaatgg	44520
cttcttcaaa	gagggggatt	cagacaaagc	ttacagtaca	taccatgaaa	tgctggaccg	44580
ggggattttta	cctgatgttg	tgacctacaa	ctctattatt	gctgcgttat	gcaaggctca	44640
agctatggac	aaagccattg	aggtaactaa	caccatgggt	aagaatgggtg	tcatgcctga	44700
ttgcatgaca	tataatagta	ttctgcatgg	atattgtctc	tcagggcagc	cgaaagaggc	44760
tattggattt	ctcaaaaaga	tgcgagtgta	tggtgtcgaa	ccagatgttg	ttacttatag	44820
cttgcctcatg	gattatcttt	gcaagaacgg	aagatgcacg	gaagctagaa	agattttcga	44880
ttctatgacc	aagaggggcc	taaagcctga	aattactacc	tatggtaccc	tgcttcaggg	44940
gtatgctacc	aaaggagccc	ttgttgagat	gcatggtctc	ttggatttga	tggtacgaaa	45000
cggtatccac	cctgatcatt	atgttttcag	cattctaata	tgtgcatacg	ctaaacaagg	45060
gaaagtagat	caggcaatgc	ttgtgttcag	caaatgagg	cagcaaggat	tgaatccgaa	45120
tgacgtgacg	tatggagcag	ttataggcat	actttgcaag	tcaggcagag	tgaagatgc	45180
tatgctttat	tttgagcaga	tgatcgatga	aggactaagc	cctggcaaca	ttgtttataa	45240
ctccctaatt	catggtttgt	gcacctgtaa	caaatgggag	agggtgaag	agttaattct	45300
tgaaatgttg	gatcgaggca	tctgtctgaa	cactattttc	tttaattcaa	taattgacag	45360
tcattgcaaa	gaagggaggg	ttatagaatc	tgaaaaactc	tttgagctga	tggtacgtat	45420
tggtgtgaag	cccaatgtca	ttacctacaa	tactcttata	aatggatatt	gcttggcagg	45480
taagatggat	gaagcaatga	agttactttc	tggcatggtc	tcagttgggt	tgaaacctaa	45540
tactgttact	tatagcactt	tgattaatgg	ctactgcaaa	attagtagga	tggaagacgc	45600
gttagttctt	tttaaggaga	tgagagcag	tggtgttagt	cctgatatta	ttacgtataa	45660
cataattctg	caaggtttat	ttcaaaccag	aagaactgct	gctgcaaaag	aactctatgt	45720
taggattacc	gaaagttgaa	cgagatttga	acttagcaca	tacaacataa	tccttctatg	45780
actttgcaaa	aaaaaactca	ctgatgatgc	acttcagatg	tttcagaacc	tatgtttgat	45840
ggatttgaag	cttgaggcta	ggactttcaa	cattatgatt	gatgcattgc	ttaaagtgtg	45900
cagaaatgat	gaagccaagg	atgtgtttgt	tgctttctcg	tctaacgggt	tagtgccgaa	45960
ttattggacg	tacaggttga	tggtgaaaa	tattatagga	caggggttgc	tagaagaatt	46020
ggatcaactc	tttctttcaa	tgaggagcaa	tggtgtact	gttgactctg	gcatgctaaa	46080
tttcattggt	agggaactgt	tgacagagag	tgagataacc	agggtggca	cttacctttc	46140
catgattgat	gagaagcact	tttccctcga	agcatccact	gcttccttgt	ttatagatct	46200
tttgtctggg	ggaaaatatc	agaatatta	taggtttctc	cctgaaaaat	acaagtcctt	46260
tatagaatct	ttgagctgct	gaagcatttt	gcagctttga	aattctgtgt	tggaattctt	46320
ttctcctaca	gtcctattag	aggagggatc	ttctctgtat	gtgtaaatag	cgaggatagt	46380
atgccacctc	tccgaattat	ttttactgtg	gttcctagac	tgtaaacaa	caattatgtt	46440
atgctgttga	tgccagaaaa	aacataaaa	tttgtcgtta	tctctactaa	cggatcataa	46500
agggatttgt	gactggagtt	tcaaaactta	tgtgtctagg	cagtaatttt	gacattagat	46560
ccaaaacaat	ttatagggtt	tcattaaatt	tcatctatgt	gtactgttta	ggtgttgaat	46620
agtttgactt	gttttttaac	tgaacaaaag	atatgtctga	agctttgttc	tttaccaaat	46680
gcagtactga	tcatcacaat	atatttttta	tggaaacaaga	ttggatttga	tagaatggtt	46740
tctgatctga	ttatcttata	tcaacgtatt	attatgcaca	tgtactaatc	atgaaatatc	46800
tgtggaatg	atgtttctat	ttacctgtgt	gaggcagcaa	ggagtggagt	ggataacacc	46860
acatactccc	tctgtcccag	aatataagaa	gttttagagt	tggacacgat	tattaagaaa	46920
gtaggtagaa	gtgagtagtg	gagggttgtg	attgcatgag	tagtggagggt	agggtggaaa	46980

agtgaatggt	ggaggggtgt	gattgggttg	gaagagaatg	ttggtagaga	agttgttata	47040
ttttggggag	tacattatta	ttctagaaca	atactgttgt	gctcaagaag	cgttccaaag	47100
atgtttcaca	acctgtgctc	gatgggtttt	gagcttaatc	ctgggacatt	cagtatcatg	47160
atctgtctca	ttcttaaaaa	tggaaataag	gatgacagca	tgattttctt	gtctctataa	47220
tcttttggt	accacagat	aatagctgta	aatctatact	actttaaaag	gagtagtggt	47280
ggtggtgagt	ggtgaatctg	ccaccacccc	accaccaact	ctcaaaaattc	tgacatgtgg	47340
gatcactgtc	aatcccttct	ccaagacatg	tgggatcact	gtcaatccct	tctccaaacc	47400
aattgtatga	tagaacagtg	gaaatcacgg	acagaccatg	gagctctcaa	ccataatcat	47460
ccttgcgagt	taataacaaa	tggagcgtaa	acttggcaag	caaaaaactc	aaattaattc	47520
taaaaattaag	ctctaggatt	caaaatagat	ttcctctctg	cattgtgctg	ttatgatttt	47580
taattccgta	acaacgcaa	tgcattttgc	tagtcttata	aagaagggtt	aatgcaaata	47640
ttctgattaa	atgattgtat	ctatgaagtt	tgaatgctag	tggaggtctc	tttgaccatg	47700
ttttgttgtg	cgagcattta	agagagtga	gagaatgctt	ctttggtgct	gttctggtat	47760
ggaaggatcc	acagataaaa	ttcaggttct	actgcttctc	tgcttgtaat	tttcatgaag	47820
ctgcagtga	taccttggtg	accacttgat	ctggtgcttt	gaaggagaat	atagtagtgg	47880
ccaaggttgg	tgacggtgat	ggtggcatgt	gatccccag	atcttcagtg	accagagag	47940
gaggggacgg	cgcgtggtga	gctacaaggc	atactcagtg	gagggcaaga	tcaaggcctc	48000
ccgtccgtag	gggactccgc	tgcacaaagg	ccaactgctc	cgaactgac	aatttctggt	48060
acggatcact	tctcctttcc	tttttttttt	caccttaagc	actctcttga	ttcttctgctg	48120
ctacctccct	taatttcttt	caatatattg	tggcacttga	tcatggcgga	gacccacctt	48180
ccagtgtgaa	tggattttgt	caaagaacta	aatttattcc	attagcttat	tttccgatta	48240
catggaagac	attcttttct	ggaataaata	cagaactaaa	tcctgtttcc	tgaataaaaag	48300
ttgttagtgt	gtggcatggt	gcatttccgc	gcttctaaat	tttataaaac	ctgttcattc	48360
aatttgaacc	tgcattccat	ccaatatatt	aggtgcagac	aggtgcttgc	ggtcagggtta	48420
aagaagttgg	caaaaatgct	tctgaagaaa	ggttaattgt	tgtttcatct	caggaggtaa	48480
tatgcagatg	attattccaa	ttggcattgc	cttgccattt	ttatcacgag	tctttacaat	48540
tttatatcct	cctacatatt	ctttccagat	tccagatgat	ccagtgtctc	caacaattga	48600
ggcgcttatt	ttgctccata	gtaaagtaag	tacacttgct	gagaaccacc	agttgacaac	48660
acggcttggt	gtaccatcaa	acaaagttgg	ttgtattctt	ggggaagggtg	gaaaggtaat	48720
tactgaaatg	agaagacgga	ctggggctga	aatccgagtc	tactcaaaag	cagataaacc	48780
taagtacctg	tcttttgatg	aggagcttgt	gcaggtaatt	tatttggcca	tacctacacc	48840
agagatccat	atattacttt	tataactgca	gtttttactt	gttaacattt	cattgtgctt	48900
ttacatttgt	tccaagcttt	caggttgctg	ggcttccagc	tattgaaaga	ggagccctga	48960
cagagattgc	ttcgaggctt	tgaactagga	cactcagaga	tggaggttct	tccaataatc	49020
cgacaccttt	tgcccctgtt	gatggtcctc	ctggtgatat	cttgcctaac	aaggaattca	49080
tgctatatgg	acgatctgct	aatagtcccc	catatggagg	gcctgctaata	gatccaccat	49140
atggaagacc	tgccattgat	ccaccatattg	gaagaccaat	atccacaata	tgggaagacct	49200
gccattgac	accatatag	aagacctgtc	aatgatacat	catattgagg	gttgaacaat	49260
gctgggcctc	gtgatcaggc	ccggtcctga	ggggggctga	atggggcgat	cgctccgggc	49320
cccccgattc	ccaggggccc	cacctatctg	tgcaacgagt	agtagcgatc	ttccagcgcg	49380
caacgtgagg	cgatgtttct	ccgtgatttc	gccggcctgc	aactgcgaga	tcgcgagtat	49440
aacgatcagc	cgatcgatct	catctgccga	ctgccatgct	gatgccacac	gcaagcgcg	49500
catatcagcc	ttatcttggt	tgatcggcat	gctggacgag	cacatctggt	gtcgcacat	49560
ctgctgactg	ctatatatgt	gctggtgctg	aatcgatcga	ttgtcgtcac	ggaagtgaag	49620
aacaaccacg	gcactgctgc	ctgctgggct	ctagccgcca	tcagtaagta	cgctatactg	49680
cctatctaga	tctagatcga	gattacatag	tgggaattatc	tgtttataac	aaaattacaa	49740
ggtatcaatt	gataatttaa	ggttataacc	gtacaaaactt	cagtgatttg	ctggtttcac	49800
attgggttaga	tttgtttcaa	ctaatttggt	acttctgtag	ccttgtaatt	tacgaatcta	49860
gtattaatat	tttcttaagt	attagcctgt	tccttgatat	tatgctgttg	agaaagtatg	49920
caatagataa	caaaaacaag	taggtgtgtt	gaggatgctc	aagagtaata	caggcacttc	49980
aataattctg	atattatcag	gacatcatca	ataattctgc	gcctacaaat	cttcaaagaa	50040
aattttaata	taatgcgtat	gattttttta	atacgaatat	tgattgctat	ttaaagatat	50100
ttatattata	tggtaattat	tatttgaagg	tttataataa	aggcctccgt	ttttagtttc	50160
acgctgggccc	ttcagaatct	caggaccggc	cctgctcatg	atccttacac	cgtgtatcct	50220
gtagagtact	tctctaaaag	agagtaccct	agtggaaagta	gcaaagttgc	accatctgct	50280
tcatacgaaa	gatatgcagc	aactactcgc	ttgcctaata	gagaactgcc	ctcatctatt	50340
agtccctggtg	ccgattatat	gtcctgcccgt	tcttatcttg	accaagtacc	tactgatag	50400

tactctaata	gggttacact	acaattaggc	ctcttgagag	ccgggaatag	taatgtgcaa	50460
caattaggaa	tcaccagagc	tggaaattcc	aatgcttatg	attatactga	ggtacatttc	50520
caatgcgtta	gcttgccctc	tctttgcaaa	tggccctcgc	ctgatatgtt	tccattagaa	50580
acatgaaacc	atatatttga	ctgttgcaat	atgtctatct	tcttccatga	tggttcagac	50640
gtctgaaaaa	aggacaaaaa	tattctagaa	tatgtcatgg	tgatccaaat	atatccttct	50700
gtcttgtgcc	cactctaata	tctatcgttg	gtaacactat	tcaattgtta	ccatgttgtt	50760
gcaaacccta	gattcagtta	ttcagctgtt	ctctgctgct	gttgcttacc	agttttctta	50820
gttgggtgtt	gatcttttct	cattttttat	ttccttgttt	cctgggttcac	ctgctgcctc	50880
tctgatgcat	ctgaatgtat	atttttgttc	tcttcagtg	ttaatagatt	taaatttcat	50940
tcttttcagg	ctgcgagct	gatccatgga	cgtgaggatt	accgaagact	gtcaggtctc	51000
actgggtatg	gcttacgcag	actgaatttt	tacaggacac	aaacatgaat	tttgtcctca	51060
taatcattga	gtgatgatct	ctttgcagg	atccagggtg	ctctgtcgaa	ttgtggattc	51120
caaatagtta	actggagtct	gtcattgggt	ttggtgggtg	caatctagct	gagatccgtc	51180
tggatatagc	taagagaaac	atcatgcaat	atccccagtc	ataacatgc	cccaatggcc	51240
accaatagtt	ttcctcgtga	aaatctcccc	ttgatcccag	atctctggtg	cgagagtga	51300
gttgcacgaa	gcccacccct	gttcttccga	gtccattgtg	gagatccagg	gcattccgga	51360
tcaagtga	gccgcacaga	gccttctgca	aggcttcac	ggcgcaagca	gcaacagcag	51420
gcaggcgccc	cagtcctctc	gcattggccc	ttatttttag	taagctggag	gacattcgca	51480
acaggggggt	cagtggtcac	tgcgaagctg	agtttgttct	tcagttcaac	tgcagaaaaa	51540
tgcagatcgg	ttgccgtagt	tgctagaacg	gtacatagtt	gccacctaac	tgtagcgagt	51600
ggcataaact	attgtgtgtt	actgcccact	gttgtctctc	cttgtgttca	tggattcaga	51660
cttgtgattg	tagtatttct	ggatcagact	ggagtaaaag	aaaaaaaaaa	aggaagacat	51720
gggtttaaca	gtaagctcaa	aacgttgaca	gtagtataat	aaaaggggtt	tgttcaactt	51780
atttccaata	tcaaccttac	caacatttgg	cgttgaatca	tttataccac	atcgcttgtg	51840
cagctgaatt	tggggctgtt	taaaagatgg	tctcttggat	tgctaattgc	ctcgcgcaaa	51900
gcgtggtacc	ttgtacaata	taaatataat	tataactatt	taatttcata	attaacatg	51960
ttgttacaaa	tctctactat	tataaaaatt	gaagatgttt	tttgccggta	ttttggtacg	52020
tcatctgtgt	atgaatccgt	ttttaagttc	gtttgtcttt	ggaaatacat	atctgtattt	52080
gattcagttt	ataagatcgt	tcacttttgg	taatacagaa	ggaatcatat	aagaattctg	52140
tttaaaaaa	ctcgtatagt	aacttgagac	gatcagacgc	ctaactacag	ctcatgattt	52200
tctaaatata	tatatatata	tatatatata	tactagaaaa	aatatatgtg	tgttaaaagc	52260
tatcttaata	ttattattgt	tatatatttt	agttaacaag	aaatctattg	tgggaacttg	52320
tttggatata	tattttttta	aaaaaaatca	tgagctgcaa	ttaggaatcc	aatcgtctca	52380
agtttagcagg	aggcgaggtt	tttttaaaga	gatttcttat	acgatttctt	ctatatttct	52440
aaaagcaaac	gaacttaaaa	accgactcaa	acatggatct	gtatttccaa	aaacgaataa	52500
acttaaaaac	cgacttaatg	acagatgatt	aatttttata	atagtagaga	taaacgaact	52560
cccacagtga	attttatttt	aactgaacca	tataacaata	ataagattaa	aatagacttc	52620
accggttgca	atgcacgggc	attttttcta	gttaagaag	aaataaaaaa	acacaaaaat	52680
ttataaaatg	taaaaaagaa	aaatattata	attttgttag	aattattatt	ataatataga	52740
aaaatagttg	ccaaaatttc	tcaacgaatg	tgaataaac	tcagcaatgt	catatattta	52800
aatatgatgg	taatatattg	tgcacaaact	ttaatcttca	atccttcaac	aacatagata	52860
tacaacgtcg	taatcgccaa	caagcccag	tgaccataca	ggatagccga	gcggtggatc	52920
tgtactgttc	ttgggtgaaa	taaatctagt	acattgtata	tcttatctta	atatctacta	52980
ttataaaaa	tgaagatatt	tcttcaaaga	tttccatacg	ttctctactc	cgttacaata	53040
tcggttctac	tccgttacaa	tatcggtttt	gtacaccccg	cgcacgcgtt	gtgtgttctc	53100
ccgttccaat	acatgaagct	agagtcttgc	ttctccctgg	tctggcaggc	cctttttcca	53160
ccatccccac	cagggccagc	gggttacatt	gacgatcac	ggccacatt	agtggatgca	53220
gccagccacg	ctcttcacaa	atcatgtgat	gaacattagc	tgagttaaaa	tttatccttt	53280
gatgattgtt	agaaatgttt	ttttctccac	atcttctctt	tcaatttttg	aaaaatagat	53340
ttcttgattt	ttgtgctcgt	acatcaacta	taaatcagtt	gttacccttc	cacacattgt	53400
caattttacca	tgtctatttc	agctcttacc	ttgtatagtc	ttgactcttg	agtcctcgct	53460
attgactaag	ttgctacatg	cctcctacaa	atcaatagac	tgccataaca	atattttcta	53520
cgacatgatc	catattagtc	catgcaatgc	aagtacacac	acactactgc	acgaaaaaac	53580
tatgcaccat	caattcaaaa	ctaacatggt	agaatgacgt	taattttttca	ttacaattat	53640
attctacgac	cgttaattta	ctaggcatcc	tgtttaaaaa	aaatattcac	cgaccatacc	53700
cacatgttcc	gtagttcatt	aggtgatgga	tcggttagtta	cagcagctgg	atttttatat	53760
tttggtcatt	ttgaaaaatt	tatttcgcaa	atagactcct	gaaaaaactt	atcccagaaa	53820

tagtcccttt	tggagcgtca	gagtggctgg	cgccgtggtc	caacgggaca	gcgccaacct	53880
ctctggcgcc	gcccccgcc	tctattcttg	tttctctata	tagagttgca	aactttttat	53940
ttttgtttta	tttttttggg	tgttttttca	ctcttagaat	cacgatacaa	ccaactacaa	54000
aaaaaattaa	actcgaacgg	aatatatcac	ttagctagaa	gtctgaaaat	atagcatacc	54060
acttatctac	tttgcacctt	caccaaatt	agaccataac	ttcttttagta	aaatcctttg	54120
atcagcatat	taaacataat	gcactctatc	actaggtgaa	attacttaat	ctaattcaaa	54180
atataactac	atgtagcctt	gaaaaattct	acatgccaca	tatttcgtcc	gtttgagttt	54240
attattttta	tggttcgttc	atgtgagttc	ccaagtgtga	aaaaaaaata	aaataaaaaat	54300
aaaaaagttg	cacatcctct	cctctgcatt	agagaggaga	ggagaggaaa	aattctacag	54360
gtcacatatt	tcgctccattt	gagttcattt	tttctatggg	tggttccttg	gtgttcctaa	54420
gcgtgaaaaa	aatatcaaaa	aaataataat	aaataaaaaa	attcggggggg	ggggggcgcc	54480
agccactctt	aggggtgaaa	acgatcggat	aatatccgat	ccaatctgct	ccgaatccat	54540
ccgaaataag	gatatgggat	gggtttttag	aaatctggcg	gatatggatg	cggatgagga	54600
tatggtatct	ccgaaatacg	acggattatc	cgacattttt	gtcggattat	ccgataggcc	54660
ctttaccgga	taatccgaaa	ttatgaacac	atgtaaccac	tctatctatt	gcatataaca	54720
taagttgggc	catccaatga	cctaattcat	caattaccct	agatttctta	ctatgtggtt	54780
ttcaccattt	catgtcacac	ttgcgtagct	gtatttttat	aaaatggaca	tcatgtattt	54840
atgttgttta	gcacttaagc	acataattat	tacaatgggt	cgtttattga	cattgtgtta	54900
tttttacttg	cattgctaac	tcaatgttgt	attgattgca	tacacacgta	acatctgata	54960
aaattttaatc	cgtttctgaa	ccgattccgc	accatttccg	acatctgcat	ccgtacacta	55020
tccacaccca	ctccgaatcc	gcttaaaaaat	atgggttagg	atatgggatg	accactatcc	55080
gtccgaatcc	gctttatttt	cacccttagc	cactctggcg	cgcttcccct	gccacctcag	55140
catcgtecca	ccacgtcggc	agaaggacgg	cggctccagc	cactctggcg	ccacaaaaaa	55200
ggaccatttc	tagcataagt	tttttttaggg	gtctatttac	gaaataagtt	tttaaaagga	55260
ccaaaatgtg	aaaaatccag	gttacagcag	actgtgataa	gcaatagcta	tattgcctat	55320
atatacacgt	atatgcattg	ctaactcctc	aattttgtcc	aattctttta	aattgtcttc	55380
acctgttgca	acgcatgatt	ttttttctag	tcttaacctt	aactaatctt	aataactaac	55440
taaaagattc	gtatctttcc	gatcgtcacc	ttgtccatac	gctaattttt	cgtccgtccc	55500
ccctccccct	caaaaaaaaaa	gggaaaaatc	catttttacac	cctcgaactc	ttatgcttgt	55560
ctaaaatata	cccccgaaact	ataaaaaccgg	gtataatata	ccctcgagct	atcaataaccg	55620
gacagttcaa	gggtgtatta	tacctggttt	tgtagtttgg	gggtgtattt	tagataagca	55680
taagagttca	agggcgtaaa	tggacttttc	cccaaaaaaa	atcccagtcg	ttactttcca	55740
tcttgagaat	cggagacagg	gaaaactgaa	gcatacacgc	aaatagaatc	aaagataggg	55800
aaaactaagc	atatacacac	aaatatatcc	aaaaattccc	atgcagctag	atcgggtgcc	55860
accgttgttg	ccaaaccacc	acattgcaat	gtaaatctaa	gactaaagcc	taaatcctat	55920
gctaagtcat	caaattagac	tcggttctac	caatttggtg	atatatcaaa	ttagacttga	55980
tttttactga	tttgaggttc	tcgaggtgtc	acactatgaa	acggaagttt	ttcccgttgc	56040
aacgcacggg	cactatgcaa	tatcttaact	aattaaaaga	ttcataattt	tcctttcgtc	56100
acaccgatct	ttcgtccgtc	tgtaacatca	cgtgcacctc	ctctccaaat	cccacatcat	56160
cataatccga	cccaaaaaaca	aaatctcaat	ctcaatccaa	tcagaatcat	cacaaaaatca	56220
tccaaaatat	caagagatga	ttataggaga	tggagggttg	agcaggagca	acatcatcat	56280
cgcataaaaa	ccccaaaatc	aatcacaca	acgacatcat	tatcacataa	gaaaaacaat	56340
acaaacaaca	tacacaatca	acaacactgg	cggatccagc	cgaggggaca	acggcgtggc	56400
agcgggcaga	tcctctcggt	cagatccgcc	cacgggtgcc	actgacgtcg	ccgccgccac	56460
cggatccaag	ggagaagctt	cggacagagg	gagagggggg	tagaggaccg	ctaaatccgc	56520
ccaccggaaa	tgcgcgcgcc	accacctccg	tcggatttgc	ccgagggagc	gccgatgccg	56580
ccaccgccat	cgcgggagaa	gcttgggcac	ggaggggtgag	gaggaggggg	ggtagagaat	56640
cgcgggatcc	atccgctgga	aaagcctccg	ccggatccgc	ctgccggaaa	caccggtgtc	56700
gcgcctccg	ccggattcgg	tagcgggagc	cgccgatgcc	accaccgccg	ccggatccgg	56760
tcgggtgggag	ccactgacac	catcgccgcc	gcctcctctg	ctaccgacaa	gggagagacg	56820
agagggggcg	gggagagggc	gggggacgag	aggggttagag	ggagggaccg	agtgggagag	56880
agagggacga	gtgagaggag	ggggacgagt	gaataaggat	gcgtgacctt	atccactcgc	56940
gcggtcgcac	cccggtctct	tctctcgtc	agctgttgcg	cttgtggaga	ggatgcgaga	57000
tttttttttg	agtaaaatgc	acgggcggtc	cttaaaacttg	tagcgggtctg	tcatctaggt	57060
tcccaaaactc	tcaaaatgca	tatccaggtc	ctagaatttg	tcaaagtgtg	tcatctagat	57120
cccaaaccga	cacatcctct	cttggatcct	acatggcgct	aatgtgactt	gtcacatgga	57180
cgtgacacgt	cttttttttt	cttcttttct	ttttcttttc	cgttttcttc	tcattcttct	57240

ttttttccat	cttctgctcg	ggtcacatag	aaaggaaaaag	aaaggaaaat	acaagagaag	57300
aaaaaaagaa	aaaagaaaat	ttttaaatgg	gtctcattcg	tcagtcaaaa	ttatgccaca	57360
tcatgtccct	gcgacatgcc	acatcagcac	cacgtagcat	cctgaagggg	ttgtggcgat	57420
ttgggacct	aatgacacac	tatgacaagt	tctaggactt	ggatatgtat	tttgagagtt	57480
taaggattta	tatgacacac	tactataagt	ttaaggaccg	cccatgccct	ttactttttt	57540
tttttacacg	gagagaatgc	gaatttggtg	gttagttgcg	gctgaggggt	tctcgcacgg	57600
agaaatttgc	ggtgggagaa	ttttttttcg	aggttctttc	tattgggaga	agacgggatt	57660
atagggatta	ttactggtgt	ggtggccctt	gttttctttc	tttttcgagc	ttctttccgt	57720
taaattcact	tttctctctt	caaggagcgt	aggacatgac	tgaatgcagc	tgctgtaaat	57780
tagaaataaa	aaagaaacat	attctgtttt	tcattttttt	caataggtaa	atataaagat	57840
ttttaagtaa	tatttaaaaa	tatatagtgc	tgatcaacga	cattgttaag	tgagattttg	57900
ctgttactat	cacttttttt	tccattgggc	tcacgtacgg	cattaaaagt	tttagttttg	57960
gttctctcct	tttgagtttg	ggcatatacc	aatattgaga	taggtatact	aaagttcatt	58020
tggattttat	tcgattcaac	ttttttgggt	tttggttcagt	tcttttttac	atgtttctca	58080
tctgaaatta	ggaaatttag	tttggttaaag	tcttgaatag	ataacgctgt	tgacgtttga	58140
acatatattt	atctattttat	ttatttataaa	atatatgaat	aatttttatt	ttgttatgac	58200
ttttgtcggg	gacatgggac	cgggagtatc	atgactagag	gcttgggcag	gagcgatcac	58260
ccacgtggcc	tgatgtaaca	tcctgaaaaa	tcccaacaat	aaaaatcact	aaaattttga	58320
acttttataa	acttttgcac	catgctgggt	gttatgattg	ctattgcttg	ccaaaccgta	58380
aatgatcaca	aagaaagtaa	agtaaggatc	taaaatttaa	gtaatagata	aatttacgag	58440
aatataatat	ttaattgcta	accctacaaa	taattacgca	caagaaaaca	aagccagaca	58500
aacggaaggt	taattactaa	tttaaattat	ggattaatta	ttaaatactt	gaaccatgtg	58560
ttgcgtgcc	tggcatctaa	atacacatga	aataatggtc	atataattaa	attaagcttt	58620
ataaaattat	gtgaggtttt	aattaagcaa	ttagcttaat	gttgtaccga	gtcttaatat	58680
actattttata	gaataaataa	attcaaccta	tccgtgtaaa	atataattgct	ataagttcat	58740
tcaatgtact	attgtaataa	taatggccac	attaggatat	tttaattaat	tttggaaacc	58800
tcaaagcctc	caaaattatc	taggttaatt	ttgaaattat	acctcattta	agtaatgcaa	58860
tagaaaaata	tacataaaaa	taaaatatgg	gtaatatagg	aaattgagta	aattttcatc	58920
taaattaaaa	catatatattg	gtaaacctcc	tttatgtaaa	aattaagatt	tatagaatga	58980
aattttgtaca	agggataaac	taaaatcggg	ttaaatagaa	aatggcactg	ttcattgcac	59040
tctaggtgct	cgacgtggtc	cctggcccta	ttttccccc	cagccgcgcg	cgccgtggctg	59100
cctcgcgccc	cgcgccacgc	caccgcgcgc	gcgctgcgcg	tgcgcgcgcg	tcgcgcgcgcg	59160
ccgttcgcgcg	ccgctcgctc	gtcgctcggc	cgcctcggcg	cccgcgcgcg	gtcgctcatcg	59220
cgtcgccgctc	gccatcacgc	cgcctggcgc	cccctgaccc	cgcgcgcgcg	cgcgcgcgcgc	59280
cgtagccgcg	tgcgcgttcc	atcgccgcgc	cgcgcgcgcg	cgcgcgcgcg	gcgcgcgcgc	59340
cgtccgcgcg	gcatagcccc	gcgcgcgcgc	gccatcggtg	cgcgcgcgcg	tcgcgcgcgc	59400
ctcgagcccc	gcatccctct	cgagccccgc	acgtcgcgct	ttgtcgccgt	tgctgcccgcg	59460
tcgtcgctgc	cgatcgctgc	gcgtcgccgc	tgcgcgcgcg	cgcgcgcgcg	tcgcgcgcgcg	59520
gccgcgcgcg	ccgcgttgct	gctgtcacct	tcgcgcgcgc	cctcgcgccg	cgcgcgcgcg	59580
ctgcgcgcgc	gtcatcgccc	gctcgctcg	cgcgcgcgcg	ccgctgcccgc	gccgtcacgcg	59640
tcgtgtcgcc	gtcggcctcg	cgccttgagc	cgcgcgcgcg	ccgtccccc	gcgcctgcgc	59700
cccgcgcgc	ggcgcgtccc	tcgcgcgcgc	cctgcgcgc	tgcgcgcgcg	cccgtcccat	59760
cgcgcgcgag	cccgtgcgcg	cgcgcgcgcg	gcgctgcgc	gcctgtcacg	ccgctgcgcg	59820
cctcgagcca	cacgcgtcgc	gccgtcgcg	cgcattagg	gccggccacc	cctttccccc	59880
cgccctataa	aaccccccg	ccacccccct	ttcacccac	accatcccca	cccatccccc	59940
tcttccctct	ctccttcccc	tcttcgtccc	ctccaccgcg	ccgcgcgcgc	gccttcgtgc	60000
cgccgcgcgcg	tgccgcgcgc	tcgcgcgcgc	ctgcgcgcgc	cgcaccgcgcg	ccttcgtgcc	60060
gccgcgcgcg	gcgcgcgcgc	cgtgcgcgcg	tcgcgcgcgc	cgtcgctcg	ccgcgcgcgc	60120
cgtcgccgct	gtcggttaag	cgcgcgcct	tccctcggtt	cgcgcgcgcg	gccgcgcgcg	60180
tgggaaggag	ccgagagaga	gagggaggaa	ggagccggga	gtaggaagaa	agaaaagaaa	60240
agagagagag	agaaaagaaa	agagaagaaa	agagaaaaga	gagaaaagaa	aagaaaagag	60300
attagagaag	ggagggaaga	gtgggcccc	cctgtcatta	gccccatcca	attcccccta	60360
gaaaaataat	tctgtagaaa	agaaaatcaa	gatcttgacc	ccacctgtca	gtcactatag	60420
cgtgtggata	aggttgtatt	aaaaataaat	gaattaggaa	cagtactatt	tcgcaactat	60480
tagaattaat	tcaaatttga	atctttacac	tagcataact	aattcatttt	agctccgatt	60540
tgagtggaac	ttgaacctaa	attcatctaa	attcataagc	tttccaatgg	tatataattt	60600
actattaaat	aaaatatatt	tataattatt	aagtaattaa	tatcatatga	ttaggttatg	60660

gtcaacttaa	aaatatgcta	ataaataaaa	ttagtattgt	ggatgtaata	atatttgtct	60720
ctaacatgtc	ttgccactgt	aacaaccaca	caaactaata	ttaagtgatg	tctgaaatga	60780
atgaatgaat	aggaaaatac	tagtacttgt	ttaatatctg	atagccatat	aattaaacc	60840
atggcttata	ggttatttaa	atcaaagtga	gccttgtgat	tatgcaacta	aaatataaac	60900
acatatagat	gaatctttag	cttgattagg	aggaataata	acagagctag	tgtgactagt	60960
tatgatatag	cttggtgtcg	gttgccctata	tttagtaaat	ggttcaatgt	taatacactg	61020
atgcacacac	ataccctttt	tgataaccta	ctagttgcat	atattaaact	tggtataaaa	61080
tgaagaacca	atatatttagc	taaatactgg	tgctagtatt	aaatcttgac	cacacataat	61140
tttagttcaa	accacacctg	aggattgttc	gttataaagt	tataaagtta	taaagttata	61200
caaaagataa	tatgtaacta	taatagtatt	aaaccacaaa	tctaaaatac	agggcgcata	61260
attgtcaacc	ttttatgcaa	acggataata	tccatatata	tacatcatgt	ggataattcg	61320
aataatagct	ccatttggtaa	aataataatg	taggcgaatc	atgggtgatga	gatgggttat	61380
cctaaacctc	cccacgcaca	tagccatgct	atagggacct	gaccatttta	ccttcataac	61440
agatctcttc	cataagccaa	tagctagact	aaaccacaga	ttagcaaatg	tgtacatcat	61500
atattgtgct	agttagtacc	aatagaacca	tcaggacaat	ataaatacta	aggaatctta	61560
gctcttagct	tgattagaat	ccaatagcaa	acacgagtag	tatgagcagc	cttaggttcg	61620
acctcaataa	ttatatatttg	cttggtgcata	attgcttctt	gttgaatatt	ggtttttctc	61680
gcatattata	gaaattgtat	atcgggttagt	cgtgaggcaa	cgtatgcagc	tttcaggagg	61740
tgaagggtga	tcaagattgt	atcaagaata	atgactattc	taagcaggca	agtcacact	61800
attccttgaa	catgttgatc	ctaattgcga	aattattttg	tttacaataa	aaattgcata	61860
caatgatgaa	catcctactt	gtgattatgc	catgccttga	ttattgttta	cccttaaaat	61920
ccttgtaacc	atgattacgt	atgagtcctt	agtcaattat	gacaattgct	tagagatgct	61980
attctagaat	catgcatact	catattttatc	aaatgctata	tgcttgggca	attacctttg	62040
ggaaggtaat	tgagatgagg	catgtggaga	catgaacgcc	acattgccat	gatattaatg	62100
acatgatttg	tgaaaggaga	aataaaatta	aacaactgtt	ttcgactggg	gcggacggag	62160
gatttgggtg	gtatctggaa	aaggctagta	ccgtccccgg	tcaattaagg	accgagccat	62220
gaagttaagc	atgaaacgac	ccccgtacaa	ccgcacttct	cgtatgggta	tagacctagc	62280
ggagtagata	gctgagcggg	ggcagtatcc	atgcatagtg	gtttcttgat	gtgtgaggca	62340
ggggctctac	ggtggggcag	ccattggtag	gaccgcgaag	cggttatcta	cagtgggtgc	62400
gccatcggtg	ggactgccat	gtgagaatct	aaaacataat	tataacttaa	tgcatgtgtg	62460
agtcttccct	tcccgggtgc	gccagaactc	ctctcactgc	tagaaaaccgt	gtacgcctag	62520
agtgcagtag	gatgaaaagt	tcatggagcg	ggtagtcca	atgcgaggtt	atcgaaaagc	62580
tctgccgtga	cgcactctcat	gtgttgggac	gaggctcatg	tggtgggcag	tcgcggagtg	62640
cggttaaagt	gtacatccac	tgcaagtgtg	gtaaaccaa	tctattcgaa	tagccgtgct	62700
cgcggttatt	gagcaccggg	acatgtatta	cacttggcta	gactctaaat	tcttaacttg	62760
tggggaatgg	gatattgcat	gatgaatttt	atgctgatgg	agccacatcc	cgagaggagg	62820
gaaggtggac	atcctcagaa	aaccatgacg	attcaatggc	gggaagctat	ccttgggatc	62880
acaatggatg	gtggacagaa	ccgtcgttgt	ttaaagtga	cactgggtact	aaaatttgat	62940
cgatctatgc	taggttttag	gcttgtgtaa	agaattgtaa	aattagcttt	atgcaaaagg	63000
acctgaagcc	attccttgaa	ataccctcta	tcatatgcat	tgttattatg	gtggcttgct	63060
gagtacgggt	ggtactcacc	cttgctatatt	atatatcttt	taggagagtg	ttgaagagaa	63120
gcccttgctg	gtacgcttgc	gtatcccaca	agatgatcgg	agtgcggtct	tggtctaggt	63180
ctcgtttccc	cagtcgactg	cctgtggcat	gttaaccggg	cccttatatt	attttgtctt	63240
tcgctgttgt	tctctgatag	ttgttggcct	acctggccct	aatgtaagta	tttaactctt	63300
ttagcctaaa	ttcattcgtg	atatgttgtg	atccaaactat	gtatgtgtgt	accaactact	63360
gatccaggga	ttggtacgga	taaacacaga	agatttccga	tttccaaaat	cgggggtcta	63420
cacctgaccc	cctcaggggg	ggggggctcg	gcccaggggt	gatgtggccg	ccccctctt	63480
tgtctccccg	aggggtcgga	ccgtccccgt	ttctgccccg	agggctgagg	cgccccgacc	63540
ccttggtgggt	tttgccggcg	gtgtatgggt	taggtgagca	caacggggct	cacctaacccg	63600
tatttattgt	ggtttgagcg	agcgcgtcac	gccgcagtga	gcgcagtga	gcgcgctcgt	63660
ttatccggtc	tgtgaccagt	cacagaccgg	tcagatcgtg	ggttaggtgg	caacaggcgg	63720
tctgacacac	gcctcgcccc	atcccgtcag	gataagagcc	tccaggcact	tgtccctagc	63780
ccggagccag	catgctaact	cctggagatg	acacgttggg	cccggtcaga	tatatgccag	63840
gcttcatccc	aaccattaca	agcaagatat	tgtatgaaga	agggcgaaca	tgcagattgc	63900
tggactgaca	cgtggtggac	aagaatgacc	gatttgtgac	cggctctgaca	ctggtcatgt	63960
cgtcggcaga	caaccatggt	cccacgttgc	acctgcttct	ggcgaggtgg	aggtaggtat	64020
gggccatccc	atcagaaggt	cgttcggaca	gcagccattg	caagtctcgg	cccatattatg	64080

aagagatgac	aggggtgatcc	cctggagaga	aaaaaaggag	gaccttgccc	acttaggagg	64140
tgaggacgac	tggaagggga	gaggatctgg	agagtagatc	ccacgagagg	aaaaaaggga	64200
gaagagggtt	tctagagtaa	gagctctctg	actctccagc	tctttgtagc	ttcttcgtac	64260
acagatccac	cagaaaatag	gagtagggta	ttacgcttct	cagcggcccc	aacctgtata	64320
catcgcccg	gtcttgtgct	tttttcattc	tgcggaactt	tccacagact	aggagcttag	64380
aatctcgccc	agggccccc	gccgaaccgg	caaagggggg	cctgcgcggt	ctcccgggtga	64440
ggagccccac	gctccgtcaa	ctttggctta	taattaaaaa	tactctaagg	atattttttt	64500
ataattttatt	ttcttatgtc	tatatgaaat	tttaataaag	atagatgggt	aaacatatat	64560
tggaaaaaca	tatatccaaa	agtccactat	cacaagcgta	gcatagatac	gattacaata	64620
cgtttccg	aagactgttt	atacctactc	tattccctgt	tccttgtg	gttgtgccat	64680
ttggggctgt	tttttcatct	cggattaact	cgcgtagaaa	ccgcgagacg	aatgttttga	64740
gcctaattaa	tccgtcattt	gcatatatgg	gttattatag	cacttatggc	taatcatggc	64800
ctaattagac	ttaaaagatt	cgtctcatga	tttacctgca	aactatgcaa	ttagtttttc	64860
tttttatcta	tatttaaatgc	ttcatatatg	tgtccaaaga	tttgatgcga	tgttctggga	64920
aaatcttttt	ttaactaaac	atgcccaagg	tgtttctcca	attaagttga	cccaaatca	64980
ttcggcgcta	cctttgtctt	tcacttttct	tcacctacaa	ggtgatgaca	ctgacaaaag	65040
gtccaaaagc	tacaggatct	gatttttgtt	catccatctg	tgatgtgtcg	gcaagccatc	65100
catggagttc	atccactcaa	ctcctctctc	tcagagagag	agagagagag	agagacagac	65160
agacacatgc	atgatagatt	gtgctagtag	ggtagtaaca	ttttattgcc	tccttttcta	65220
aaattctagg	ttgtttggaa	aacaaaaatt	ctagattgtt	caataaatta	ataatattag	65280
gtattttatt	taagtcaact	taggtgttaa	tttttgaatt	ttaaactgct	taaactctct	65340
ttcgacgcat	ctgagagcag	gtacaatagc	agactataag	ccagctataa	atataatttt	65400
agtagataaa	agaggaaaaa	taagagtagc	gggctataga	tttgtagaca	gctgcagcgc	65460
gagctccaag	atacatatgt	gtatgacatg	tgagaccaa	cattaattat	gtagtatatg	65520
tttatatgta	tctattgtat	gaattggcta	ttaaattgac	tatgggtgtg	ttcggagggtg	65580
ggtgttggga	accatctccc	aagcacggaa	aacggagcgg	tccattatgg	cgtgattaat	65640
taagtattag	ctatttttta	aaaaataaaa	tcaatatgat	ttttttaaac	aacttttgta	65700
tagaaaacttt	ttgcaaaaaa	tcaccgttta	gtagtttgaa	aagcgtgcgc	gcggaatatg	65760
agggagagg	gttgggaacc	tcctcatccg	aacgcagcct	atacatgatt	tggagccaat	65820
agttggctat	aatattaaac	ttgctctgag	tggctcttga	atcatcgaag	tgatagaaat	65880
catatgcaga	aatgtttata	tttgtgatgt	aaaatttgaa	tctaaaatta	tttatatttt	65940
gaaatggagg	aagtactacc	taaaacaagt	atgagaaaga	gacatgaaaa	acacaaaatc	66000
tagacttaaa	aataattgga	attactagca	ggaggctcga	gtcaatcaag	acggcgaaga	66060
aaagcacagg	ggacagcaga	cacgttaaca	cgtaaagtaa	caaacaagtg	gttaattaat	66120
tagggggccc	tcaagtctcc	cctaaagcca	ctaaacatga	caggtttgtg	taccatggaa	66180
aaaagggtga	agcaaaactt	tattctctct	ctcattagat	taccagttgg	aaagcaatcc	66240
tgggacctct	agctaattct	attattgtag	aacaacgttt	tcttagagag	agagagagag	66300
agaaataagt	caataaaaaa	tactactaat	ccacttgaac	cagttctgtc	ggtgtcggat	66360
gattttaccac	atttgacgaa	acggactatt	tattcgacgt	ttcgaaaaa	acactttttt	66420
agaaaaaaa	aactttctct	tattagccac	togttttagt	tatataccta	tccgagtatc	66480
tgttaagt	atttatcaaa	atattttaatt	tatctctata	attaaatata	caatccgtaa	66540
aaacaatcac	gcagtaattc	gtttcaaact	gagcctcagc	tagaaaatca	aaatggaaat	66600
gaataacaat	agcaacagta	gagttagttt	ttcggcttat	catccgcaac	ccaaatgcga	66660
attttaaaact	tagccttaga	gttaattttt	aaggcttgtt	taccatactt	cattttccca	66720
gcattagttt	cttttgtcac	taaaaattgt	ttttttaagt	tgtttcgttc	attttctcac	66780
ggtttatcag	cagtagagcg	aagccattct	tggagcctgt	ttggcacagc	tctagctcca	66840
gctctagctc	cactctttct	ggagctggag	ctcagcccaa	cagtttttag	tgcaacaaaa	66900
ttaggagtgt	agttgggtgg	aactctctca	caaaaaattg	tggagctgga	tttagacagc	66960
tccacaactt	cactccaaac	ccaactcctg	aagttaaatt	gataagttga	agctctatct	67020
atcaagccct	ttttcttgat	catgcttcta	cctactccat	ttttgtttct	tggccctcac	67080
aggaattgga	aaggaaaggc	gtatatgcat	caatgcatgc	atgcgcacat	caacctcgtc	67140
catcaacat	cataatcatc	atcatctcgc	cagctgacga	aaatgacctg	catccatcca	67200
tcacggacaa	tccaacgcaa	caccgctacc	aacatcacag	ccaacctgtt	tatcactagc	67260
tcttgatacc	actcctacat	aaacactacg	cgcaggttaa	ttaattaaag	gtgattactg	67320
aagtaacatc	taatcacgtc	ctggtttagcc	tttaataaga	caacagttag	agcaggtaca	67380
atagcagcag	gatataagcc	agctataaaa	aaagagagaa	aagagcaacg	ggctacagat	67440
ctatagccag	ctgtagcatg	gacttcaaga	cacaacgtgt	gtataacagg	tgggaccaga	67500

taataatagt	gtagtatagt	aagtaactat	tatatatatt	gactatagat	gatttggagc	67560
tattagtgtg	ctatagtatt	aaacttgctc	atagagcagg	tacaatagta	ggatattagc	67620
cagctataaa	catattataa	tgagataaac	attgatagag	aagagcagcg	ggctacagat	67680
ctgtagccag	ctacaacacg	gactccaaga	cacaacgagt	gtatgacaga	tgggaccaga	67740
tattagtagt	atagtaagca	actattatat	aaattaacta	ttacattggc	tatagatgat	67800
ttggagttag	tagtgggcta	tactattaaa	ctttttctct	tagcaaaaat	caagcgcccta	67860
atcacattag	aggagtagct	ttgagacaaa	ccaattagcg	gcgaatcaag	cgatctgcgt	67920
ggtcgtacag	tgatggggccg	ggccggggccc	acagcccagc	agtgacaggg	ggcctgacgc	67980
atgtcagcct	cagccctgga	cgggagctag	ccgtttgtgtc	cccgggggag	gggagggggg	68040
cattcccac	atttcgcccc	tcctccgggc	ccacatctca	gtgggggtaa	aggtgtaaat	68100
tactgcgacc	gcgagtccag	cgagcctaga	tttggacctt	gtgtccgttt	gactgaaccg	68160
gagctactcc	ccaatacggg	gggattgcgt	tgtgtgcatg	ccatgtgggc	ccgagcgccc	68220
tttgttcgtg	gctttgggtt	ggaaagggtga	ccgtgtgagc	tgtgcggtgt	tgtactacgt	68280
attagtataa	atcattttttg	ggtactactc	cctccgtcca	aagcttattt	ataatttgtt	68340
gtactccaac	cgtccgtctt	atttaaaaaa	aataaaaaaa	aaattaaaaa	aataagtcac	68400
acataaaaata	ttaatcatgt	tttatcatct	aacaataaaa	aatactaatt	ataaaaaaat	68460
ttcatataaa	acggacagtc	aaacattgtc	acgaaaatct	aatgtttgcc	ttttttttta	68520
agaccaaggg	agtatctacg	aacaaagata	atacatgtta	taatcatgaa	gccccatgatg	68580
tgattagccc	ggcgttttga	ctaacctcac	gagctacgtg	gctgacaagt	ttactttgtt	68640
aactccatca	tttcggatac	ttagagcatg	tacaatagca	gactattagc	cagctataaa	68700
catatttttaa	tgggataaaa	gatgagagag	aagagcagcg	ggctacagat	ttatagccag	68760
ctgcagcacg	gactccaaga	cgcaatatgt	gtatgacagg	taagaccata	tgtaatatgt	68820
atagtaagca	actatttttat	aaactggcta	ttagatcggc	tatagataaa	ttggagctag	68880
tagtggacta	tactattcaa	cttgctctta	tatgatataa	atattgatat	aactatatga	68940
ttttgttaat	gacatgtttg	tttatggatg	gactatgtgg	ggtcggtcgc	ctccgtagct	69000
gacaaaaata	caaacttaaa	acccctatct	ataaaaaatct	aaacttttgtt	tataaatata	69060
gatataaaag	ttcataatta	gagcctcatc	ttttaaacga	aaagagtact	atgaaaacaa	69120
ctcgtaatat	aaagactaat	tacgacgaaa	agaaaatagt	actgacaaga	ggaaagcagt	69180
gaacttgcgt	actccctccg	taaaaaaaaa	caacctagac	acggatataa	cactatatat	69240
ctagattcgt	tcgtttgtaat	gaagtgtcac	ctccgtatct	aggtttggttt	tttcgtacga	69300
aagaagtatg	agtaaatacta	aagctatgta	tacccttcgt	caaaaaaaaa	aagtaaacct	69360
tgtactgggtg	cgtgtcacat	cctaataataa	tattgttttt	tatggagggt	gtacagttga	69420
aaaaaattga	tgtgttttaa	ggatgaaaaa	tattggtaat	gttggctatg	taactctaga	69480
aaaaaaaaatg	cagtaataat	aaaatgctaa	tttgctggag	tactagatta	tagacaatcc	69540
agtcaggagc	acgacaccct	ccctactctc	tccacttcca	ctctcaccgg	ccaccgcgcg	69600
ctctctctct	ctctctcccc	cttctccccg	aagattcttc	cccaaatcc	caccgatcc	69660
accgcccgcg	cccgtcggcc	ggagtcccat	cgtgcaccc	gcccgcggag	ccgcggcccg	69720
acgcccgcg	ggcctgcttg	ctgtgtgtgt	gaggagggtg	agttgtctgc	gctcgttccc	69780
gcggccacct	ccgcctgctg	ctgcttctgc	ttccgctggc	attgcgggga	ggtcgtgtgc	69840
cgggggacgt	gggggctcgt	gttgagcgc	ggctgcccgt	gaggtggggg	gtgcggcgcg	69900
gcgcggctcg	cgctcgtgcg	ccggtggcgc	gggcgcgggg	ggaagcgtac	gggggagggg	69960
gagtgtggcg	gcggcggcgc	gcggggtagg	gacgggcgc	gccaccacca	ccggctcgtt	70020
cgctggcagg	cgctacgcgt	ccagatccgt	acgcgggtat	gcttcgtctc	gccgcaactc	70080
tctccatttg	attagtatcc	cctcgccgaa	acgaggcctg	tgaggcgccc	gctttctggc	70140
tggcttccct	gtactcgtcg	cttgctcctg	cctgttgggt	taaccggttt	ccatcgaatt	70200
tgggtaagcg	aaacatcgcc	tcatatgggc	atttgggggt	ctggcagcct	taggctcgcc	70260
atccgtcgcc	gagcttccaa	gtgaccggcg	cttgttggtg	tatttgcttg	cttgttctcg	70320
tttggtggct	gcgctaaatc	ttttgtgctg	catgaattt	atgccacca	tatacagcaa	70380
attactgagc	tgaataaatt	cggctaatta	ggtccagcaa	tatgacatct	cgtggattga	70440
atgctaagct	gacattgtat	cactgatgct	ggcttatata	taggttgttg	agaagtgaag	70500
atgtcgacag	gtgaaaccct	gcgtgcagag	ctatcatcca	ggacgcgcgc	tttcggtttg	70560
aggctatgga	ttgtgattgg	aatcagatatt	tgggtggtga	tcttctttat	actaggtttc	70620
atgtgcctct	ggtccatata	ccgaagggaag	ccgaagaagt	cctttgataa	gattccagta	70680
tctcaaatcc	cggatgtttc	caaggagatt	gcagtagatg	aagttcgtga	gcattgctgtt	70740
gtcgaaaact	tccgtgtgca	agaaaagccac	gcgatatcgg	tgcaggagaa	acattacgag	70800
aaagattcag	ggaaaattgct	ggcacacttg	gttaggagta	aatcgagtga	tgccgataat	70860
ttgagccaat	gcagctcgggt	gtaccaatgt	gatagggctg	gtagctcgta	ttctggtgat	70920

gaaggcagct	cgggcaatgc	taggaggcac	ttttctcaat	atgcaactgt	ctcagcatcc	70980
cctctgggtg	gtctcccaga	attctctcat	ctgggctggg	gtcattgggt	tactctgaga	71040
gatttgagc	atgcaacaaa	tcggttttcc	aaggagaatg	tcattggaga	gggtggatat	71100
gggtagt	accgtggctg	actcataaat	ggaactgacg	tcgcaataaa	gaagcttctt	71160
aataatatgt	aagagatcct	gaaatctatt	ctgcggttta	cagaacttgt	gactccttct	71220
gatgccatca	tattaatttt	cttttgatat	ggtgctgcag	gggccaggca	gaaaaggagt	71280
tcagggttga	agttgaggct	attggccacg	tcaggcataa	gaatcttgct	cgccttctag	71340
gatatttgt	tgagggaatc	cacaggtaaa	gctattttatc	aatcaccttt	gctgatggat	71400
ggctagcttt	tgtttctact	ggcacattat	ttacttgcat	agggatgtag	gattgctctt	71460
ggtctatgtc	cacctactca	ccagattatc	tcaagggata	ggttattcct	gactgcactc	71520
cttatgctat	cgattttttc	ccttccaaat	ctgatgggtg	gattcagcat	gcccagtgac	71580
agattatgct	cagtcacacg	aaaccttctt	tggaccacca	ttcttttacc	atgaaaatgt	71640
ggccatagct	ccgaaagcta	ggattcacta	gaagcgcaca	actgcttatt	ggtttgtag	71700
ttggctataa	caaggctcta	ctgaaatgta	cttccatagt	tcattacttt	gtgaatgcct	71760
gttcttggtc	ttcacgtttc	ttctcatgca	tgttcaattc	taaatttgta	ttcatgatat	71820
gtccaagcta	ctgtattctc	caaagaaaat	cagaagtcca	ttcacctatg	tattttccag	71880
ttttccgcca	ttttggatac	tgctctagaa	acaagttaat	aatatagata	tttatatggt	71940
ttggccagtg	ctgcttaagt	gaccatcgag	atagaatttg	cttaagaaat	atactaagt	72000
gttgagtgtc	agggtgtttc	ggataatctt	gttaccaca	aataggtoct	atgaatataa	72060
tggtgtctgc	ttcacgtaat	tcaaaatcca	cactcagcca	aaataatctg	caataggggtg	72120
ttgaaaatat	gattatgttt	ctcccttggt	ttcatcatga	ctacagaaat	gaacaatgtt	72180
gctacatctt	gtaataattt	gtggttttca	attgaacaaa	acatccatca	aatgatattct	72240
acagcaatat	attttgcact	tctgagcaca	caatagggtt	gagtgtattc	gagtcattgt	72300
cattgattta	agctttttat	ttcactacat	aaccattgat	ttgagtgtat	ctaaggagtt	72360
ctgtttccac	aagtacttta	tgttaatggt	gtctccttat	gctttggcca	tccaaactca	72420
ttactgttgt	ttaatatattt	tagtggttag	tggtgtccaa	atctttcttt	gtgtacatca	72480
tactatgttt	ttgtagtcta	ttaaacttcc	atcctatcat	ctgacttggt	atattccagg	72540
atgcttgtat	acgaatatgt	gaataacggg	aacttagaac	agtggcttca	tggtgccatg	72600
cgccaacatg	gtgttcttac	ctgggaagcc	cgaatgaaag	ttgttcttgg	aattgctaaa	72660
gcgtaagaaa	caaaccatcg	tccccgtcaa	aaagaaaaga	attgttcttc	acttttagctc	72720
ttttatatgt	atatgttttag	ttgcataacc	cattttccat	aactgaattg	gtatacaggc	72780
ttgcttattt	acatgaagca	atagagccaa	aagttgtaca	ccgggatatc	aaatcaagca	72840
acatacta	cgatgaagaa	ttcaatggca	aactttctga	ttttggcttg	gctaagatgc	72900
tggtgtcagg	gaagagccat	atcacaaactc	gagttatggg	aacttttggg	tatgttgata	72960
tttttttggg	gttagtatta	atcttttcta	tgcttagctt	ttactgttgg	aatgtgcagt	73020
acttcgctta	ttcatacagt	ataaaatttt	acatgtgcg	aactttgtcc	ttcgtatat	73080
ataacaggta	gctttctcat	tgctatcatt	gattcatttc	aggatgtgg	ccctgagta	73140
tgccaacaca	ggtctgttaa	acgagaagag	tgatgtctac	agttttggtg	tgctattact	73200
ggaagcagtg	actggtagag	atccagttga	ttatggccgg	cctgctaattg	agggtgagcat	73260
atatectaca	atctcatgcg	tattatgtat	gttacaaaag	tccgtactat	tggaaattat	73320
tttacggcaa	aataacgtct	atactaggag	agacgaattt	gcttcagggtg	tatggctgtc	73380
tggcagttgt	ctactgtcta	gttacccttg	tctcactttt	acagtctatt	gttttatattt	73440
tcaggagctg	actagctgta	taccttgtea	tatataacaa	cactgtaacg	tggatgcctt	73500
gcaggtgcat	ctagtggagt	ggctcaaaat	gatggttggc	acaagaagag	ctgaagaggt	73560
agttgacctt	gacatggagg	tcaaaccgac	cattcggtgt	cttaagcgtg	ctctcctagt	73620
ggcactgagg	tgctgcgacc	cagactctga	gaaaagacct	actatgggtc	atgttggttcg	73680
gatgctcgag	gcagaagatg	tcccatcccg	tgaggtggta	acgctttctc	ctttcctgca	73740
ataacattca	tcatattata	tcattgcaat	aaatctgaag	cttttgctgt	aatcctactg	73800
aaggaccgga	ggagccggag	gggcaacact	gccaatgcag	ataccgagtc	caagacaagc	73860
tcaagcgaat	tcgagataag	tggcgataga	agggactcag	ggccatcagc	aaggtttcaa	73920
ctctaagaag	acggtgatca	tagtcaagaa	caatggcttc	aaaactctat	gcagtaacat	73980
ggtggttggc	agagaaaaag	gggtatttct	ggagggcatt	gcattttgta	ttgtaggctc	74040
gcatggcggt	agagactgga	gagagcacag	tgtctgatga	tggataccccg	gagacctgta	74100
attcccattc	agtattctgt	ttgttagtca	agcagcttgt	acagatcggt	gtctgttcca	74160
ttttttcatt	cttctgggtt	ttttgtttag	gaggtctctg	gattaccagt	acgaaccgct	74220
gtctcttttc	tagaatcacc	aacatggaac	ctatcaatat	ttactactag	tactacgact	74280
tgctttcttc	ttgctgagat	ctatcatgta	ctgtacataa	ctgacgtgtt	cagctgcact	74340

tggacaagta	gatgctcggt	ctgtatgtcg	aatctacttg	atgagggtcga	gcattaagta	74400
ccatggctgc	agccgggttc	tgtttagttg	tgctgacatg	cggcggcgac	ctcacgctgt	74460
gtggcccatt	cttgatcttg	ggccgaaact	gtagcaacgg	gcgtacggcc	catctatatc	74520
gggattgttc	ggcccggtgt	agatgggccc	gatcgggatt	gcgacttacg	tgcgacccat	74580
ttcggttggg	cgggtggtcc	gctacttcat	ctagcagtgg	tccggcgccag	ggttcacaat	74640
tccaatagaa	tccaaacatt	attggattga	gttaaaaaaca	caaaccaatc	ggctttttgt	74700
caggttcaga	aaatttttaa	ctgaatttta	atcttttgac	aaaaatctat	ttagatttcg	74760
tctgtttttt	taggtttgtc	aacggattca	gcgaaatccg	atgatatcgc	tctgtagtgg	74820
atctttgatc	cggtatcgag	attgtgaacc	cttgtcgcgc	attgcctgac	aaagacaacc	74880
agtgaagcgc	cgtgcgcgcc	gcgtgcgcgc	cgcgtgacgc	gaagatgcgc	aggaaggaac	74940
aagctggcaa	gcggcgcgcc	catgacggcg	gcggcgacga	cgacccgcgc	gcgtgcgtgc	75000
gtcaacgcac	gcgaccggcc	gagatccgtc	agtggccgcg	gctatatata	atacatcgtc	75060
gcctcacacc	ccccacacac	cgagtcacgc	ctcgccggag	ttagagttcg	tagcggcgaa	75120
ggatatagcc	atatattata	gatggcgatt	ggtgttggtg	gctgctgcgc	cgtgctgctc	75180
gcggcgcgcc	tgctcttctc	ctctccggcc	accacatgta	agcacgcccc	tcttcttctt	75240
cttcttcttt	ttttcttctt	tttttttttt	tttttggaaa	tgagccgcag	ctgacaaaaa	75300
gatactacac	acatggatac	actgtcgtga	cactaaccaa	tgccctaagcc	atcttgtttt	75360
cttgttttgg	atcttttctt	ttatgtgtat	cacttttgct	tggtgtctct	gcagatgctt	75420
atgattccct	ggatccaaac	ggcaacatca	cgataaaatg	ggatgtgatg	caatggactc	75480
ctgatggcta	tgctgtaagt	agcgggtggca	gtacaccaac	atctctacct	ttatcttctg	75540
ctcaacctgt	acattttacac	tatcttggtc	tactacctct	aataaaaaaa	tatatttgat	75600
gttttaaaat	ctattaagtt	ctagagatta	ggaaagctac	acatggtttt	atgttttgat	75660
actattaagt	agtatatatt	ataagttata	ttgaaggctg	gggtttcaaa	agtttgacta	75720
cactagatct	tattcaaagc	gtctaattgat	tactgaacgg	aggaagtatg	aacttataga	75780
cttgaagtta	aacagcatag	ccacatctct	tcatgtatac	ttcatccgtt	tcatattata	75840
agattttcta	gcattatcca	tattcatata	tgtgcgtcta	gattcattaa	tatctatatg	75900
aattgggcaa	tgctataaaa	tcttataacc	tgagaaacgg	agggagtatg	tgcgaaacaa	75960
caacaacaat	aacaacgagc	aaaatctgta	togaatccgg	tttccctctt	gtaactgtat	76020
caaagatctg	tcctctgaaa	cgtcccctgt	tcatcaggcc	gttgtcacac	tgtccaacta	76080
ccagcaattc	cggcacatcc	agccaccggg	gtggcagctg	gggtggacat	ggcagcagaa	76140
ggaggtgac	tggtccatgt	acggcgcgca	ggccatcgag	cagggcgact	gctccatgtc	76200
caaggagggc	agcaatgtcc	cccacagctg	caagaagcat	cccaccgtcg	tgcacctcct	76260
cccgggcacc	ccaatcgacc	tgcagatcgc	caactgctgc	aaggctggat	cactgagcgc	76320
attcagccag	gacccggcaa	attctgcccgc	gtcgtttcag	atc		76363

<210> 28
 <211> 53905
 <212> DNA
 <213> Orza sativa Asominori

gatcagtgag	tgagagtgat	gtgctattga	ttttcgtcta	ggatttttgc	gtgctcttct	60
tcttcttctc	ctctctacca	agaaagatcg	atggaggaga	atctgttaga	cgcgtttctc	120
acgaattact	tagctgttaa	tgatcagctt	gatgtgtacg	atatgatggg	gcagagtga	180
agttgtgttg	ttcactgggtg	gatcatggga	tgggaatatg	ggattgttgt	aagatgtaac	240
tcaagtgttt	tcttttttgg	gattactttt	ggtaataaga	gcttgggtga	tgcgaaacta	300
cagatgggtt	ttcttttaag	ttgtatgatc	tctgtagagt	ttttgagtaa	tttgtagttt	360
tgtaccctat	caaagatcat	ctctagctgc	ctctgagctc	tccaactcta	tatgtccatc	420
tctagtatat	atgtcccata	tttctgactg	aaaattttca	agtcggtttg	ttccctccgc	480
ctggatatcc	tttcagctaa	ttagattttt	tttaaatgat	aaatttgcta	aaagcttgtt	540
caaattcagc	taagatctat	tcaaacttca	atctctctat	cgaaattccc	ggaaatttca	600
attcaatcat	tccccaatac	atgccgattt	cgttaatat	gaaccatgac	atgtaaacaa	660
cgaaggaaac	aagggcataat	ttagtttcat	ctcacatcga	atatacggac	acacatttga	720
agtattaaat	gcactcta	aacaaaaaca	attacagatt	ccgccaagaa	actacgagac	780
gaatctatta	gacctaatta	atacatcatt	agcaaatggt	tactatagca	ccacattgtc	840
aactcatgac	gcaattaggc	ttaaaagatt	cgtctcgcag	tttccctgacg	aaccgtgtga	900
ttattatttt	ttctacgttt	aatactttat	gtatgtgccc	aaatattcaa	tgtgacaacg	960

tgaaaatttt	tattttggaac	taaataggcc	ctaataattct	ttcaagatat	tagaatagtt	1020
atccctctcc	acctccctgc	acaaacagtg	aacttctttc	tccttgggca	caggagtagt	1080
agcagctccc	ggaaacagaa	agcaatcaag	caaagtcctg	aacctgaagc	atcctgaaac	1140
cagcagacgg	cagaaaccag	tgggcgcagg	cgatagcagt	ttttcgtggt	ccggcgtaga	1200
gccaaaatac	tggccatcgg	gtgcctacat	agaatgagtc	cactggacgc	agctaccacc	1260
gtgtgtgcta	cactgaccgc	cgctgctcgt	cgaccagttg	tacggggctg	acttattctg	1320
aattttcta	ggtttatttg	ggggtttaga	acactgaggg	gtgctttaga	tccaaagatg	1380
tgaagtttgg	gcgtgtcaca	tcgggtatta	tatatagttg	cgcacagggg	gtttgggcac	1440
taataaaaa	actaattatt	gatcctatac	gataagctat	ataatactcg	atgtgacacg	1500
ccaaaacttt	acatccctga	atctaaacac	ccttttaaat	agagtatttg	gtgtgaaata	1560
taattttgat	ttgggaagaa	ggtgagtgag	atttggaaaa	aaaaagcatt	tcaattaaaa	1620
aattttgccg	cagtaaataa	agaaactact	cggtttttga	attaaagtga	ggttttggca	1680
cttctttg	ctaaactggc	ctccatttta	taaagtga	accgtgcagc	aaaagcctga	1740
aaaggcaaaa	agaaagaaat	tgtagagggt	tttcaggagg	atacaactag	gtgggtctct	1800
aactctctat	gcagctgtgg	tctgtggagc	aaaacgatga	aatggaagac	gggacgttga	1860
cgagggtgaa	gaaaacgagc	gtttgaccag	cgtcaaccat	ggcgtgaaca	gtagcaccac	1920
taacctgacc	gagagggttg	agaagatgca	atcaacgggg	tactatagtt	cccacgaatt	1980
tcccagcaac	aacgggttgg	ttctcactac	tcacgaattc	cctgtggctc	aacaactact	2040
agtacatcct	tttgtccatt	atgataaaag	ttctatctta	atttttattt	acacgttttt	2100
caaactgttt	tttaattttc	tatataaaaa	atacttaaaa	tatcaaataa	aatctatttt	2160
tggagtttta	aaaaactcaa	ttaatcatat	atattattga	cttattttat	tttacgtgga	2220
ctaaaatata	ttcatcttca	tttaggttat	gttcttttct	catcaagata	catgatacat	2280
tagcatgttt	ttcaaactgt	tttttaattt	tgtatataaa	cttactctaa	aatatcaa	2340
aaaatttact	tttagggttt	ataaaagtaa	aactcaatta	atcattacta	acttgtttca	2400
ttttacgtgg	actaaaatat	cttcatcttc	atctaagggtg	gtgtttggat	ccaaggacta	2460
aatttttaata	cctatcacat	cggatatttg	acactaatta	gaagtattaa	acatagatta	2520
atgatgaaac	ccattccata	accctggact	aattcgcgag	acgaatata	tgagcataat	2580
taatccatga	ttagcctatg	tgatgctgta	gtaaacaatgt	actaattacg	gattaattaa	2640
gcttaaaaa	tttatcttac	gaattagctc	tcattttatac	aattaatttt	attgttagtt	2700
tacgtttaat	acttttaatt	agtatacatc	cgacgtaaca	ctgatcgata	caaacaccaa	2760
ctaaatcgaa	aatcaccgaa	tggctcgtca	tcctcccaca	tgagatgcca	agatggaaca	2820
ccaacaatcc	aacggctagg	aagcgcccca	tcccaccac	cgccataaccg	ccttccctatg	2880
caagtgggtc	ccacccttcc	cttccctttt	tttttctttt	tacaaatccc	cttcccttcc	2940
ttggctagct	agctagcttg	gcccacgcgc	acgagccgag	ccgagcacat	ccggagccaa	3000
gccgagctca	gcgcctcagc	tcccctcctc	cctctgccca	ttcccgggtt	cctcctccga	3060
tttcccctca	atccgcacgc	ctctcccctc	cgcctccatt	ttcccgaatt	cccaattccc	3120
aaatccggat	acgcccgcgc	cgcagcagca	aaaaatttcg	aaatccaaat	ccaaacctcat	3180
ccccccacg	acgacgtcac	ccacatcccc	acccccgcga	gacgagacga	gacgactccc	3240
aaatctctct	ctcctctctc	ctatgcgcgc	cgccgcgcgc	gccgcagcag	cagcagctag	3300
gaggcggagc	agcagcagca	gcagcagctg	agatgatcgt	gcgcacctac	ggccgcagat	3360
ccgctcctt	ctccgacggg	ggaggagggg	agcgcggcgg	cgccgggtggg	ttctcgtcgt	3420
cgcaagacgc	gttcgaattc	gacggggagg	aggaggacga	cctcgtcctg	ctggggtcgt	3480
cgtcgcagtc	gtcgcacccg	cccgcgccgt	cgcaggagtc	gtcgtcgatg	tgggacttcg	3540
acgaggaccc	gccgcccgcg	ccccggcggc	ggcgggggag	gggtgggggt	ggggactacg	3600
cggagcccgc	cacggcggcg	gcggcgggcg	cggcgggccac	ctcgtcatg	gaggcggagg	3660
agtacggcga	gatgatggag	agcgtggacg	aggogaactt	cgcgctcgac	gggctgcgcg	3720
ccaccgcgcc	gaggcgggtg	cgcggggcca	gcttccctgc	gctgctcggg	atctgcgcct	3780
ccgcgcgcgc	ccgcgcgcgc	ctccggggccc	aggggtcggg	acaccaaaga	accctccttt	3840
tttttttctt	acttgtctgc	gctgtaagta	aagaataaca	attcgcgttc	ttgtctttgc	3900
ttcgcgggca	atcttgggtga	ggaatcttgt	tagggttatg	aaattgggca	gccagttctt	3960
gtttcttctg	cgtaatcttg	gcggaaacag	tgggattttg	tacgattatg	gctccgta	4020
cggcatttct	gtgggaaatg	aaccaccttt	agggcatttg	accttcgaac	agcatgcttg	4080
gtgttgcaat	ccgtagctat	tgccttcac	ttaggcacaa	gaacttgttc	tgaattatga	4140
tttaccacat	tgtgtttgtt	ttcttgttct	gagttttctt	gcttggttag	ggttaggggt	4200
atcacctggg	tggttcagaa	ttagatgttc	gctactgttc	ttaacctctg	ccttgcccaa	4260
tttggtaccg	agtggtacag	ctgggttttag	gaagtgtgat	ctttgagcat	ttctagcatg	4320
ttgggtctct	tattttgcta	atctcacatg	gttgtagagg	aaggaagcat	agtgactgat	4380

gatgaatgcc	tagatactag	aaatacatct	ttattaactg	aattaggatt	gcttgggtat	4440
ctatgtagat	atgactgtag	aatgttactg	ctggaaatgc	tatccaatat	ccattgatct	4500
ctagccta	atatctctcg	aggccaagag	atcagtcaat	tttgaacttt	caggagagtt	4560
tctatttgg	acttaatctc	ttttatttgt	tacttttgg	gcctggctct	cttttcatga	4620
ttgctaagta	gacaggtaaa	gttctaccta	aaattattct	taaaagttca	aaatcgcttt	4680
agattaagga	gtgccagcca	gagccttagg	cagagtctta	taaacaaaa	gcacaatgct	4740
acaatgttca	caaaactttt	gtggaatttc	cacttgagct	gtataaacat	cgcaatctac	4800
tgtgaataaa	agaagcactt	gatggaagtt	catgttagca	aatgacatgt	tttctgtgag	4860
gaggttgatt	gcttgaactg	ttatggactc	ttgcaacttt	ttattttact	tcgtacccat	4920
ttatgcta	gtgcacaaat	aaaattgctg	agagtaaaaa	tgtacaactt	gttacgcacc	4980
agcacacttc	ctatttgtat	ccattttcct	gttgaatttc	aaatgtattc	aattgctgaa	5040
attgtttccat	tcaacaaaca	catattccgt	taatgaaatt	attatacatt	gcgttttgtt	5100
ttcttactca	caagtgtcct	cttttcttat	atcctataga	ttggtgcaac	aaattattga	5160
tgcaattttg	gttttgaaca	ttgatgatcc	tccctgcaact	attggtgcag	ctgctcttct	5220
attcgttttg	gcaagtgtatg	tgagtacctc	tcaatcccat	ccttgtgctt	ctgtgcatgc	5280
ttcatttctat	tttttacgca	tatcgattgt	tttcttttat	ataacagccc	ataaaaaataa	5340
tcacatcatg	gcaaagttat	ttatttctcc	agtacagtta	tataagtatt	caccactttt	5400
ccatgaatat	cttggcattgt	gattacaaag	aagattattt	aagaaagtcc	atgcttttat	5460
ttcatcat	tttttgaagt	tgaactttaa	tttatgggtg	aaatttcagt	taatatgtct	5520
agcagctcgt	attctttta	ggcataaact	cacttgtgct	tattctccaa	tatctccctt	5580
cttgtttgtc	aggttcaaga	aaatcatttg	ttggattcag	aatcttgtgt	ccattttctt	5640
cttaaattat	taaatcctcc	agtgaatcct	gttgattcca	aagcaccatc	gatagggtcc	5700
aaacttcttg	gaatcagtaa	agttcaaatg	cttaatggat	caaataagga	ttctgactgc	5760
atttcagagg	aaatcctttc	aaaagttgaa	gagattctct	taagctgtca	agagatcaag	5820
tcgctcgaca	aagatgacaa	gaaaacaaca	aggccagaac	tgtgtccaaa	gtggcttgct	5880
ttgttgacaa	tggaaaaggc	atgcttgtct	gctgtttcag	tggagggtaa	gttttaataca	5940
aatcttcttg	tcattgatttc	cctttatgac	cattataatt	atttttatga	gccaaataag	6000
cagttgccat	aagttacata	gcacctgttt	acaatattca	tgggtgggtt	gcttagccct	6060
ttgcttcacc	tgcccttgat	tgatgacttc	catccgtgtt	gcacaactga	attggagtaa	6120
ttgactgcac	tagaagcacc	tatggccatt	gtcatactag	gaagggtttc	ccttatcaaa	6180
tatttgattg	ttacagagac	ttctgacact	gtgtccagag	tcggaggaaa	ttttaaagag	6240
acattaaggg	agttgggagg	tcttgatagt	atttttgacg	ttatgatgga	ttgccattca	6300
acattggagg	tgagatctcg	ctaacatcgc	atattttaca	cttcctttgt	tcaactctaa	6360
aggatgggtg	aagttttgtt	cctttttgcc	attttagctt	taatgtgctt	gaagccacat	6420
gaaagcaatg	cttgtccaga	tacatagcea	aaggttgtta	tattttggga	catggaaaat	6480
gcttgaggta	gtaactattt	tcattcaggac	atggaaaatt	ggctgcatca	caaattatgt	6540
tgtttcatgt	tgcaaaaatag	tttttttaata	cctttttatt	ctgcatgtgg	tgtagtgctc	6600
ttacagtgt	tcctctgatg	attatatccc	ccacgataat	aatacttgac	atatctcac	6660
caagtggaca	ttattcattt	ggatgttact	tttccagcta	tacttgtgtg	tcttgcataa	6720
actttggagt	aaattgcgta	tccctttaag	agataaactg	cttgggtgctc	ctatctgtgt	6780
actttttatg	cccccaacta	ataatgcaat	catattacgc	tgataaactg	aataaataaa	6840
ttaacaatat	acttctggtg	gaaacottgt	gtatcagaat	ctcataaagg	atacctcaac	6900
ttcagctttg	gacctaaatg	aaggaacatc	tttgcaaagt	gccgctctcc	tcttgaaatg	6960
tttgaaaata	ttggaaaatg	ccacatttct	aagcgatgat	aacaaggtaa	tgttccttat	7020
atattctgtt	tcagtttagt	acccattttc	ttcttctgta	ccatcttctc	ccctcatttg	7080
ttctgtgcaa	aatgtgcaaa	cagtgtgact	ttgtatttct	gcttaacatt	tttctttttt	7140
tcctgaaaag	cagtataaac	tcttacactc	attttgcttc	ttgcagaccc	atttgcttaa	7200
tatgagtaga	aaattgtacc	cgaaacgctc	ctcgctttct	tttgttgggtg	tcattatcag	7260
tattattgag	ttattatcag	gtatttttct	taataataca	atatgtccgc	taacacaata	7320
aaatgtttta	aacatccagt	atgttaaagt	tgcagtctga	cgccatattt	gttttgctgc	7380
agctctttca	atactgcaga	attcttctgt	tgtttccagc	tctacatatc	cgaaatcgtc	7440
taaagtctct	caacagagtt	gctctggtta	taacaaacac	caaatttgtt	tgatcaactc	7500
gttggctttt	ctgtgcaactg	tttcaatata	gtttggctgc	cattcaagtc	tcactacaga	7560
tgttgaactt	gacctgacac	ggtggcacca	atattttata	aacgctacct	gatattttta	7620
atatttcatg	tttcttgacc	cagattatct	tgttgggttc	tcatataagt	ttaattagtg	7680
tcgttcttga	aactttgtta	tgcagcagat	gtcatggggg	gaacttcatt	taatgatgga	7740
aagcgcaaga	actcgaagaa	aaaaaacctt	ttgtcgaacc	agacacgcca	tagttgctta	7800

tcttcaaaat	cagaagtttc	tcatattact	atatcttctg	gtagtgatgc	tggtctgtca	7860
cagaaggcat	tcaattgttc	tccatctata	tcaagcaatg	gggcatcaag	tggttcatta	7920
ggcgagagac	atagcaatgg	tggtgctttg	aagttgaata	taaaaaagga	tcgtggcaat	7980
gcaaatccaa	ttagaggctc	aagtgggtgg	atttcaataa	gagcgcacag	ttctgatggg	8040
aactccagag	aaatggcaaa	aagacgccgt	ctatctgaaa	atgtaatcac	cgacagtggg	8100
ggcggtgatg	acccttttgc	ttttgatgat	gttgatcagg	agccttcaa	ttgggaactg	8160
cttgggtccaa	aaaagaaatc	gcctcagaaa	catcaagaca	aatcaggaaa	tgagtgcta	8220
gttgcaagtc	atgaaccaga	ccaacctgaa	gatcttaatc	agtcgggtac	aacatctctt	8280
tttagtgcta	aagatgaatc	cagtcttttg	gaagactgcc	tcttggcatc	agttaaggta	8340
attaaatatg	tttccttctg	atctttcttg	tttcttcttc	aagagaatat	acattcttgg	8400
gtcacagttt	ctcggtttgt	ctttgtgact	ttgttgagtg	acataatttg	aattcacaaa	8460
atttcctttt	caatatggct	cctcaatcta	tagcatctgt	cgtgtatgta	ttctgtacaa	8520
aatagtattg	taacatctcc	tagaagaaat	tggcaccatc	catatcatac	agtagcaatt	8580
tatgagacgt	gaccttgatt	ggaggtttag	gacagagcct	cgagctaaat	tgctattgta	8640
ttgtatctac	tatcttttag	tacatgatat	gtgctgggca	ctctgtgtct	gagtgtagt	8700
agtgcctaag	tttacatagt	tcagctaaca	tgcatagtta	agacagttta	tgattaaatt	8760
taagtgtaga	aagaaggtac	tttcaaaaga	tttttaagga	caatataaatt	gtttcaccgg	8820
gactcatgct	gtttctgact	gtgagcctaa	tgtttacctt	acatgccctt	acattgtcta	8880
ttttttatcg	ttttatgaga	tcttccaaac	aacttgatct	gtcttaaatgt	ttttttgcta	8940
gctcctttct	tggatatctg	gtaaatgggt	aggccgaagt	atgaactttg	ccttattgtt	9000
tcaaagaaaa	tgtaacaact	cctggaaaag	tctaattttg	gttgcccttt	attttgctga	9060
ccgtattggc	acacatctaa	ttctgctgtt	cctttctggc	aggttcttat	gaacttagca	9120
aatgacaacc	catctgggtg	tgaattgatt	gcgtcatgtg	gtggacttaa	caccatggcc	9180
tccttgatca	tgaagcattt	ccctcattt	tgttttgctg	tggacaacaa	ctataacacg	9240
agagatgtca	atcttgatca	tgagttatca	tcttctcaaa	acagcaaggc	acaccaggtc	9300
aaaattaagc	aattgcgaga	tcatgaactt	gattttctgg	ttgccatatt	gggcttgctt	9360
gttaaccttg	tagagaagga	tagccttaat	aggtaagtcc	ctcacatgct	tccttccatt	9420
tgctcaattc	atatcagtg	tactgttctg	gcagttcctt	ggggtcagga	ctcagaaaca	9480
tccaattaat	gttcatgttc	tcttaacgac	tcagaaatac	tttataacct	ctccacaggg	9540
tacggctttc	atctgcccg	gttcctgttg	atctatctca	gaatccacag	agtgaagaga	9600
cacagagaga	tgtcatagca	ctcctctgtt	ctgtattctt	agcaagtcaa	ggtgctagt	9660
aagcttctgg	aactatatca	ccggtaatc	aaaattcttc	aagttccttt	tgtatgtaga	9720
ttatatcttt	gtaaaactcg	gcatttatta	cctgctcttt	gtttcaaaaa	gcagtatttt	9780
attttgctcc	ttagcatagg	tcagcagaac	agttgatctt	attcagaaaa	caatattttg	9840
catgtaacat	actgttatct	atgagatgaa	aattaatgca	tgtgtaataa	tgtcaatgat	9900
aaattttg	tacttgaatc	cagcttacca	actctagtta	gaccgaaatt	actgaggttc	9960
tatttcaaa	aataatttag	tgcaccattt	gttcaactac	tatgaagtaa	aatggtatcc	10020
ccttctattg	acatcgggtt	agaagtga	ggccatctta	atgcaatgtt	ctcaatgcc	10080
caaaccaca	aatttcatta	acacatacag	attattatta	acatagctat	aaattggatt	10140
tccagaagct	tgagttgaat	ttattttgtt	acaattgaaa	gcaactggga	cattagcatt	10200
tttttttagt	tcttgggtat	tgcaatttat	aatgttatac	agaactgtgt	acctcacaat	10260
gcattcatta	tgacattcta	tgaaccattt	gattgactgt	tgcttgtaaa	caacaggatg	10320
atgaggagtc	tttgatgcaa	ggagcacggg	aagctgaaat	gatgatcgta	gaggcctatg	10380
cagcccttct	tcttgcgttt	ctttcaactg	aaaggtttgc	aatctgtagt	tgatggattg	10440
ttttattaat	gtctaactac	ttgcataatg	tcagcactat	ggcatttaac	ttatactgtc	10500
tgttaaactgc	aacagcatga	aggttcgtgg	agccatttcc	agctgccttc	caaataacag	10560
cttaaaaaatc	cttgtgcctg	cgctagagaa	atttgtggta	tgtctccata	attcttgaac	10620
tactgtttgt	ataaaaaagt	atggatgatc	tttgaattta	ctccattttg	gaaatcatta	10680
atttttcatg	tctgaggtgt	gaggtgtcac	cataattgta	cttcccatcc	aggaagcctg	10740
tttgcaaaat	ttcacataaa	taaggaaaat	ttgaacttgt	ttcaagtttg	aatagtaaca	10800
ggatgtttta	tttctcaact	ggagaaaaca	ttccggtctg	gacttttaac	ccttaaaatg	10860
ctagtgtgct	cccactgtaa	gattgtctgc	tgtcacattt	gaaactttgt	gtaataacct	10920
tatcactacc	cttgagatga	gagacacaa	ctggtaccga	gttaagttat	tgataactcc	10980
cagttgaagt	acagcaccaa	atcaagccaa	catgttggct	acgtaattaa	atgttctctt	11040
acaacagata	gaggtaaaaa	gggagtttct	aagtatctaa	cctcttacc	tcttggctta	11100
gcaactcagg	cacaactctt	tcttaacttg	cgatttagga	cttgactctg	agaatattgt	11160
gtgcccacac	tggttgagt	catgcctatc	taagctgcta	gtttttgttc	attttgatta	11220

actctgaagc	tgcctgagct	tattctgctt	ccatcattta	ttaatccatc	atgtttctct	11280
ttcagtcgtt	ccatctgcag	ctcaatatga	tcacagagga	aacgcactca	gctgtcacag	11340
aagttatcga	gaaatgcaaa	ctttcataga	aagagtgaag	aggggcctgt	acagatcaac	11400
taacaacctc	tttgagcaa	aaaagcatat	acacaagtgt	ttgtcttggc	ctggggctct	11460
gcagatggac	tgatactctg	acctgcagtg	ggcttgggag	ctaacaatgg	tttcattctt	11520
ttttttttta	tgttttcccc	tgttgttttt	gctcatgttt	tgtgtaattt	tttcttctca	11580
tctagcgatg	ttatttttct	tagcatgatg	ggagtagccc	tccttttttt	tttctctaatt	11640
taagtgtaaa	gtagcaacag	catagggatg	aatgttcagt	gtagtgtgtg	gtgtttcagt	11700
tattcagaga	cgtccatata	gtttgtacct	tgtgaccaca	cgtcttaatc	tgatgaagct	11760
tagaataaat	cacatgttag	caatgcaata	tcactctgct	cttctctcac	tttgggtggc	11820
atcaaattct	gtgtagaagt	gtatggttgg	tgtgctgttg	caaatgccgt	attccgctct	11880
gttttgtgga	agttaagaag	tccttagttg	aaataccgat	ttttcatgat	ctcggagatt	11940
gatgcaactc	tgattgcagc	atttcttttt	attagaatgt	acactccatg	ctatcatgat	12000
gtttattggt	tagtactaca	agatttgggt	aaccattatt	ttaatatcat	aataatttta	12060
taaaatcttg	gagtaacaag	ttcataatac	atgatagcat	aactttttga	ggctagtcta	12120
tgtatattgt	ctccttttgt	tttaactaa	gcactcaata	aattattgat	ggctgtaatt	12180
ttctgaaggt	tgcaccggtt	tcggcccggt	ctttataaat	agcttcggca	caaaagacaa	12240
aacggtccct	ccaacacata	aatgggttgag	tttacgtttt	cattatcttt	ggtaaaatca	12300
agtcaccac	gtagacactc	ataacaaaag	tttgaatatc	ctcagaaatt	ttgacttgag	12360
tctatcttac	ctttgatata	ggacatccaa	ccctccctcc	ctccctgaac	tttatattat	12420
tcatattaca	cctgaacttt	atattattca	tattacaccc	tgaagtgggt	ttcattttaat	12480
tgcatacatg	ctgaaatagt	ttgacaacgt	gagatgcaca	aaatctacac	gttcgtctta	12540
agttgcaatt	cattttatcc	cttttctttt	tctctcttac	ataggaatat	caatagtact	12600
aattcacatt	acaatatagt	ataaattggt	gatcgattat	tggcaatata	ctatattaaa	12660
tattcaaaac	tagtcattta	agctgccaaa	taagtaaacc	actatcgaaa	accacaatat	12720
aaatggcatt	acaaaactta	gggggttgaa	tatccaattt	taaagttcat	gatgctagag	12780
gaattttctat	caaaaagttta	tgggtacata	tggacttttt	cctttttaaa	agaagctatt	12840
cttatcgtaa	acgttaaata	ttttttgtac	tttatttttt	atgattgaaa	aaaaaactta	12900
gttttcaaaa	tgatttgtct	gtatacaagc	atcaattaga	cttaataaat	tcacttaaca	12960
gtttcctggc	agaaaactgta	atttgttttt	gttattagac	tacgtttatt	atttcaaatg	13020
tgtgtacgta	tatccgatgt	gacaacccaa	cccaaaaatt	ttccctaact	ccatgaggcc	13080
ttacagatat	atttgatggg	tgtaaaagtt	tttaagttct	ttgggtgcaa	agttttttaa	13140
gtatacggac	acacatttga	agtattaaat	atagacaaat	aacaaaacat	attacatatt	13200
ctgcctgtaa	acaacgagac	aaatttatta	agcctaatta	atctgtcatt	agcaaacgtt	13260
tactgcagca	tcacattgtc	aaatcatagc	gtaattaggc	tcaaaaatat	tcgtctcgta	13320
atttacatgc	aaactgtgta	attggttttt	tttttcgtca	acatttaata	ctccatgcat	13380
gtccaaatat	ttgatgcat	cttttttgcc	aaattttgtt	ggaatctaaa	caaggatcaa	13440
atttgctgaa	tttttccaga	cgtcacggct	tgttcatcca	tcgttcgcat	cgcgattcgc	13500
caccgacgcc	ttggtttcca	acgaatttta	tcatccgctt	aaatacatcc	aaagctctcc	13560
atcgccatcg	gcggccaaag	gcgaccgctc	cgtctacccc	aatccaccca	tccactcgcc	13620
gccgccccct	gatccaaagc	ctccgcccgc	ccgcccgcga	gaggaggagg	aggaggagga	13680
ggaggaggag	gaggcgtag	cccctatggg	gaccctctc	cggccgcgct	cgctcgccca	13740
cgccgcccgc	gccggcgagc	ccaagccgct	gaccgcccac	ggtagccacg	cgccctcga	13800
gaggcccccc	ccccgcccgt	cgtgatctc	tcttctcatc	ctgtttgggt	ttgggtttgt	13860
gatttgggtg	tttttttttt	tcgcagcgg	tgggtgtgag	cggtggccgc	ggccgtggcg	13920
tggagtgcc	gccgcatcgg	gtgcgcgcgc	gcccgggtcc	gcaggttgcg	gtggcgacgg	13980
cgagctggag	gaggcgagg	gagaccgtgg	tgagatcgga	tttcgcccgt	ggtgggtgccg	14040
ctaccatggg	ggattcgccg	caggcgctct	caggtttgca	gcctcctcca	ctctcttctc	14100
gcaaaatgtg	ttgctatggt	cctctcgctg	ggctggcctc	atagccatta	atgtagtttg	14160
ctggaacatt	acattcgga	cgttgttggc	aattgcttga	caaaatgtgg	aattgtggag	14220
gggagaaaaa	tcgtttgaac	ctgcagtgc	aaaattgcca	tctataattt	taaaactgaa	14280
ggtgtggaaa	tcaaacata	tcattgccag	cacatcattc	ttgttaacca	ccttgacata	14340
ttgttggctt	ataacagtta	gtccacacc	aacttgaag	gtgtcaatgg	aatgtaagta	14400
taaattgagg	ataactggca	gttgttaaga	ctttctacag	aacttgtagc	agctaaaact	14460
agctattgtg	cattttatgtt	tcattggaatt	tgagcggcaa	tggatatttc	ttactaagac	14520
gtataatgca	aaacaaaaaa	aaaaaaaaact	atgtctatgc	agtttacctg	taatgtgcgg	14580
atgcaataa	aatcatgttc	atggacaaac	taatgggatt	cataccaaat	tccagaattg	14640

catttcttat	gtggttactt	ttgtttgttg	atttggttac	cagacatcga	tgtggtttca	14700
agggtcagag	gggtttgctt	ctacgcgggtg	actgcagttg	cagcaatcct	tttgtttgtc	14760
gccatgggtt	tgggttcattc	acttgtgctc	ctatttgacc	gataccggag	gagagctcag	14820
cactacattg	caaagatttg	ggcaactctg	acaatttcca	tgttctacaa	gcttgacgtc	14880
gagggaaatg	agaacctgcc	accgaatagt	agccctgctg	tctatgttgc	gaaccatcag	14940
agtttcttgg	atatctatac	ccttctaact	ctaggaaggt	gtttcaagtt	tataagcaag	15000
acaagtatat	ttatgttccc	aattattgga	tgggcaatgt	atctcttagg	agtaattcct	15060
ttgcggcgta	tggacagcag	gagccagctg	gtatggctgt	agtctcatcc	ctgctttctt	15120
aagtagacat	atatacattt	acagtatttg	gtaaataaac	aagattttat	gaatcatata	15180
tgattttggg	gaaaacacaa	aactctcttt	gttggtgccc	ttgaacatag	ttctgttcac	15240
acagttatag	caccttcttt	aaaatgaaga	actttgttgc	atacacataa	ggccaaacca	15300
cataatgaat	tttgtttatt	tctatctttg	aatgttagca	tcgtttttgt	ttaatgcatg	15360
atcgcttcc	tatatatttg	tagtatgtca	acattgtatt	ccatgctgag	cataacaaat	15420
ggtttggttaa	aattcaggac	tgtcttaaac	gggtgtgtgga	tttggtgaaa	aaaggagcat	15480
ctgtattttt	ctttccagag	gggactagaa	gcaaagatgg	aaagctaggt	gcatttaagg	15540
ttcagtaacc	aaacttaggt	tacattacat	ctaatagagat	ttttatattc	agtatataat	15600
gttaaccttc	tcatgggtga	ctgacgtggt	tataaatgtc	cccagagagg	tgcattcagt	15660
gtggctacaa	agaccgggtg	tctgtgata	cctattactc	ttctcgggac	agggaaactg	15720
atgccttctg	gaatggaagg	catccttaat	tcagggttcag	taaagctcat	tattcaccat	15780
ccaattgaag	ggaatgtatg	tgagaaatta	tgtctgaag	caaggaaggt	gatagtgcac	15840
actcttattc	taaacgggtta	tggagtgcac	taaagaaaga	tgggtgtttt	ttttattata	15900
tggaaacctat	tcaaaggcac	agacaggctt	tcaaggctaa	gcttggtaca	ggtagtgata	15960
ctagttacta	attactttcg	taatcagtat	aaataagctt	gtgtagtgtg	atggcattgt	16020
acatttctgc	acttggtaaa	tttacagaag	aggcaagtaa	tatttttagag	gattgagttt	16080
attcacccag	tcatatagtt	gaagaggcaa	gtaacctgta	agagaggact	gaacattaac	16140
acctcttggt	cgattaaaaa	tgaccaaaga	gcatcaaaca	tgtattcgag	gctgttactt	16200
tagatatggc	ccattaattt	gtttagttgt	ctatgtacat	cctagttggg	gtaaatgcca	16260
gttaccattt	ctatgatcta	aaacaatcaa	ctcttttagt	atattttcaa	aaacgaaaat	16320
tcagtacaca	tgtatgaatc	ttaatattct	tctctagctc	gttacaaaag	caacaaaggc	16380
accgtgtcag	ctgggttcaca	ttagctagtt	tgtacttagc	attatccact	agcaccttat	16440
tttcatgcat	atcatgctaa	tttgcttgcc	cacgttgagt	gggaattttt	ttcatgtttt	16500
ataatttata	tatgttttag	acttctagtc	cacaatttat	gtacttcatg	ttcctgagcc	16560
tctagtatgg	ctgatagcag	actaggtgct	gagtgtctgc	cttttttgca	gactgaagag	16620
agaagaaata	caagactgtc	cattgttagt	cagatttgta	aaaatagact	ctgatgtagt	16680
ttacttttgc	ccctatttta	tttttaacaa	tacaaatata	taacagatcc	taagaactta	16740
tcttaattta	ggagaagttg	ctcgtttcat	taaattaaat	tgtgaagtaa	aatgtgtgct	16800
tcgagcttgt	caatgcaatc	ctgtgttctt	gtttgaagat	atggtgtagg	gcaggccagg	16860
attgaacact	gaatggtaag	actgcttctg	ccttcagacg	ttattgctaa	atttttagct	16920
acttgacgtt	agtgctgcc	cgccgattaa	cgagtgaac	aaagtagttt	tgtcgtgcac	16980
aaatgagtta	tatttcattg	gaaatcgaag	cgaaaacgaa	tcaaaagtta	gaagaaaagg	17040
ggaaacttgg	taattactcc	ataaagagag	tgcaatttat	tggtaagatg	gtatccggaa	17100
gctgtgagct	ccgggctgta	tgtattctgg	caaatttgat	atgagatgct	cgattattgg	17160
cttaagttag	cgatatcaaa	tttggggaag	caccaaagga	attattgtga	aggagttatg	17220
ggtgcgtgac	gttatctgct	aggttcaaat	ccttgtggct	atgaatat	atctgctagg	17280
ttcaaactct	agtgactatg	aatattaatg	ggtaaggtaa	gggatttatt	gttaatttta	17340
gtttctttta	gattgtgcca	tcggacgcca	ttcggttaact	gtaataatgc	tttgtattgg	17400
attcacttgt	gttacatgca	cgcactaaac	atgtgcttta	ccttttcatc	tgtttttgcg	17460
ttctgggcta	gaaactcaaa	cgttgaattt	tccatggtct	gctcaacttg	acaattactg	17520
cgtgtcaagc	gatcttatac	gcatactatg	cgcacaagtg	attgtatacg	gatatgatga	17580
cagtataacg	tgtgatattg	atttttttta	taaaaaaatg	atgttccttt	ccttgatgaa	17640
ggaacaaaga	ctttttttta	agaaggggta	ttactaaaaa	caaaaatgac	aaaaacaaaa	17700
tatcagtgtc	catggcaagt	gtgctcggca	attttttctc	tgtactttta	acaaaaatac	17760
ttctatatgt	tcttttttat	aagggtggca	caaacttttt	aaatgagcca	aatatctaca	17820
ttggatttat	taaaaactgt	ataaattata	atttatactc	tgaaaggttg	tgtgcatctc	17880
tcttgagaaa	aatgtataag	ttgcaaacaa	acattaatcc	acgttatgta	actttttttc	17940
gccggaaaag	ccgaaggagg	cctgacggag	cgtgggggct	ctcaccggga	gaccgcgcag	18000
gccccctttt	gccggttcgg	ccggggactc	agggtgaaat	tctaagctct	ctgtatgtgg	18060

aaggttcg	accgtcgaaa	gagcataaga	cacggggcgat	gtatacaggt	tcggggccgct	18120
gagaagcgta	ataccctact	cctgtgtttt	gggggggatct	gtgtatgaag	gagctacaaa	18180
gtatgagcca	gcctctccct	tgttctgggt	tccgaatctg	gaaaagtcca	gtccagttccc	18240
ccctctaaag	tgggcaaggt	cctcctttta	tatcttaagg	ggataccaca	tgcaccatct	18300
ccctcctttc	tgtggggact	taccctacct	tttcataaat	ggacggagat	ttgtatagtt	18360
gccgtccgaa	tgaccttctg	ataggacggc	ccatacctac	ctccacttcc	gccgaaagca	18420
ggtgacgacgt	gggattatgg	ctgtctgctg	acgacatgac	cagtgtcaga	ctggtcacaa	18480
attgctcatt	cctgtccacc	acgcgtcagt	ttagcaatct	acatgttggc	ccttcttcac	18540
acaacatctt	gcctgtaatg	gttaggatga	agcctggcat	atatctaacc	aggactaacg	18600
tgccatctct	aggaggtaac	acgctagctc	cagctgggga	cgagcgccca	gaagccctcg	18660
tcctgacggg	atggggcgag	gcgtgcgta	gatcgccctgt	cgccaccta	cccgcgatct	18720
gaccggtctg	tgactgggtca	cagaccggat	aaacgagtg	actgcacttc	gttacatgcc	18780
gcgtgacacg	ctcagccaaa	ccgcaataaa	tgtgggttag	tgagccccgc	tgtgctcacc	18840
taaccatac	acgcggagca	aaaaccacg	aggggtcggg	gcgcctcggc	cctcggggcc	18900
gaggcgggtg	cgggtccgacc	ccctcggggg	gactaagagg	agggcgaa	catcaccctc	18960
gggcccagacg	tcccccgagg	gtgccaggcc	acgtgggcga	ttgtgtctgc	ctcaaacctc	19020
tagtcatgat	actcctgatc	ccatgtcacc	gacagtagcc	cccggcggtta	tgccaggggc	19080
atgcctctct	ttaagggaag	cggtcggggc	tgacggcact	cctaaggcct	ggtgacaggt	19140
gggacgggtc	tccacaattg	ggcagaaacc	caacgggtcac	aaatcacgca	catcggaat	19200
ggtaactcta	ctatcaataa	tgagcgggtct	cttcaagact	gccacattac	tcgagtagca	19260
cacgaatctg	gacatggcga	ttcgtttcgt	ctggagatat	ggtaacgtcg	ctttgggtcgg	19320
cgagcgtaat	taacgcgcgc	acgatatgat	ctatctcgac	tgccacaacc	gcataatccac	19380
ctcatgcgcc	gcaagcgggc	gaatgggatt	agtggaaagc	tgggcgcgag	aaacgagggg	19440
gcgaaatagt	gggcgcgaga	agcgaggagc	cgggcacagc	gttggcaaga	gtataaaggc	19500
actgaggaaa	ggatctgttt	ccttcccttc	gccatcattt	cccttgtctt	cgccgcttgc	19560
gccctaactc	cttcttttct	gtgctctact	ttcgccacac	gcgctcgctc	tcaatcttct	19620
cttctctcgg	cgccatggca	cggggctccg	ctctgctcga	tggtagcgtg	ctgccgcctt	19680
cccgcatcgt	gagcgagagg	caggctgggc	tgccgcgcgc	cttcatgccg	gaatctgcca	19740
ccggccggga	gatagtcacg	ctgggtgagg	gacgcccggc	gccagactac	ccggggcggt	19800
ccgtcttctt	tctccctttt	gcaatggcag	ggctgggtcc	gccattttct	tctttcttca	19860
tggatgttct	gaagttctac	gatctccaga	tggcgcacct	cacccccaac	gcggtgatga	19920
cattggccat	cttcgcgcac	ctgtgcgaga	tgttcattgg	ggtgcgccca	tctcttcggc	19980
tgttcgggtg	gttcttcacc	gtgcagtcgg	tgtcgcgcgc	atcggtagtt	ggtggctgct	20040
acttcagacc	atgggggcgc	gtgctgaatc	gctacatccc	ctgcgccttc	cgcaagaagt	20100
gggacgactg	gaagagcgac	tggttctaca	ccccctcgc	cgacgaagcg	cgcctctgac	20160
tcccgagcca	gcccccgcg	caggcctcca	gctggggggc	gccggtagat	ctgggggatg	20220
gtatgacgc	cgctctcgac	cgcctggcg	gcctacgac	ccaggggctc	acaggggcca	20280
tgggtgtacg	cgactacctc	cgtcgtcgga	tgcgcgcgt	ccagcggcgc	gctcggggcg	20340
cctgggagta	caccgggtcc	gaagactaca	tgaggaccca	ccagggagtc	agatgggact	20400
gggtccttga	ggatttcaag	atagtggtcc	aacgggtgct	gaatctcaac	tccatggagg	20460
cgtccctcat	tccccaaagg	atcctccctc	tctgcagcga	tccagaccgc	gcctccatcc	20520
tgaccattat	gacggcggtc	ggggcctcag	aggagtgagc	tccaaagggc	cacgacggcg	20580
caggcgggag	ccgtaggggg	gatcaatcta	ccccgggagg	gggtcgtgct	tctgggtctc	20640
gcgacggagg	cccagggagc	agccgccttg	ccgacgcccg	ggggaagagg	aagcaggggg	20700
gaacacctcc	cccatctcct	ccccgagggg	gcggggcggt	gcgtgccaac	agcaggcgcc	20760
cggagggggc	cgcgcgcgac	tgcagcccgc	aggggggagc	caagaagaag	cggctccgca	20820
agatggggga	gacagaacca	tctcggggaa	accttatttc	ccctccaaag	tggtcgttta	20880
accgaccccc	tcgcagggtt	gtctctcacc	catcgtggct	gtattcattc	tctcaacgcg	20940
agttttcact	cacccatctt	gttcgtcttc	tgggtctttt	ttctgtttca	gcgagatccc	21000
gtcgcgtccc	tcccgcatt	ccaagtccgc	ccagtctgag	gccgaggatc	cggcgggccc	21060
agaggcccg	aggcggaat	ctgaccggcg	agaggccgcg	gatcgccctac	gggaagccga	21120
ggaggccgc	caggaggccg	cccgggctcg	ccagggcgag	gaaaccgctc	gggaggaggc	21180
cgcggggggc	cgcagggccg	aggaagccgc	tccggaggag	gccgcccag	cccaccaggc	21240
cgaggaagcc	gctcgggaga	aagccggatt	tccgaggac	gaggcaatgg	cgaacttcca	21300
ggcgactcgc	tatgaggtcg	cgggcgcgtc	gcttgagccc	gcttctcctg	gcgacgctca	21360
ggcgacaact	tccggggcag	ctggcgacga	ggctgcgggc	gcgtcgcttg	ggccactcc	21420
ctcaggcgac	gcccaggacc	aaccagggtct	gagggacatc	cccaggtccg	gcacttccat	21480

cgggcgccccg	agccgcgctgg	catcctctcc	aaggcggtc	ttccccacgc	cttctatcgc	21540
cccgtgagc	gcagagcccc	ttctgcaggc	cttggccgcc	gcaaacatcg	cggtgttggg	21600
cggtcttagt	gcccaggtgg	aggccctgca	agcagagtgg	gcggagctcg	acgccgcgtg	21660
ggcgctgtc	gaggaggggc	ggcgctcagt	ggaggccatg	gtggaggtgg	gccgcaaggc	21720
acaccgccc	catgtctcgg	agcttgaagc	ccgtaagaag	gtgttggcgg	aaatcgccaa	21780
ggaagtggag	gaggagcggg	gggctgccct	cattgccacc	agcgtgatga	acgaggcgca	21840
ggacaccctc	cgccttcaat	acgggagctg	ggaggcggag	ctagggaata	agctcgacgc	21900
cgcccagggg	gtgcttgacg	ttgccgctgc	ccgagaacag	cgggcggggg	agaccgaagc	21960
ggcgtcccg	cggcgcgaag	agacccttga	ggcgcgccgc	atggcgctgg	aagagcgcg	22020
ctgcgtcgtg	gagagggatc	tggcggaacc	cgaggccgcc	gtcactatcc	gggaggcaac	22080
actggcggg	cacgagtcgg	cctgtgccga	agaggagtcc	gcactccgcc	tccacgagga	22140
cgcgctcacc	gagcgggagc	gagctctcga	ggaggccgag	gccgcggcgc	aacggctggc	22200
ggacagcctg	tccttcggcg	aggcagcgca	ggaggagcag	gcgcgcggca	ctctggaatg	22260
tgctcgcgcc	gagaggaccg	cactaaacca	gcgggcccgt	gacctcgagg	cgcgggagaa	22320
ggagctggac	gcgagggcgc	gcagcgcgcg	ggcggtcgcg	ggcgaaaacg	acttagccgc	22380
ccgcctcgct	gctgccgaac	ataccatcgc	cgatctgcag	ggcacgctaa	actcgtccgc	22440
cggggaggtc	gaggccctcc	gcttggcagg	cgaggtaggg	ccggcatgc	tttgggacgc	22500
cgtctcccgc	ctagatcgcg	ccggtcggca	ggtgggcctc	tggagagggc	ggaccgtaaa	22560
gtacgcgcc	aaccatggag	gcctcgccca	gcgcctctcg	aagatggccg	gggctctcca	22620
acggctcccc	gaggagctcg	agaagacaat	taagtcatcc	tcgagggacc	tcgccccagg	22680
agcgttggag	ctcgactagg	cgagttacca	ggccagggac	cccaatttct	ctccatggat	22740
ggcgctggat	gagttccctc	ctgggaccga	ggacagcgcg	cgcgcaggtc	cgggatgccg	22800
ccgaccatat	cgtccacagc	ttcgagggct	cagcccctcg	gctcgcgctc	gcccccaact	22860
ccgacgagga	ggacaatgcc	ggtggtgcag	acgacagtga	cgatgaggcc	ggcgaccggg	22920
gcgtatcgga	ttgatcccc	aagccccgc	cattcttcag	tttttcttc	ttttccttct	22980
tctaaggcct	tcgggcctct	tttttgtata	gatcaactta	atctgtaatc	aaaaatgaag	23040
aaatttttgt	gtcaatttca	tcttgctgtg	tgtatgagat	gaggatgatc	tgtgacgtgg	23100
tcctttttgc	tcttagcttg	attaagggtc	cgtgcccgag	tcccagtcct	caaaaggcgt	23160
gggtcggggc	tagtgccctg	ggagatccac	atgtcgagac	tggccaggcc	gggaacgtgg	23220
tgaccgaggg	ttatgggtga	cccgattgtg	ggtttttgcc	gattcccccc	cggagttcac	23280
cacgcccccg	ggcacggctc	ggttctgggc	cccgtttggc	gatttttagc	gacccgagcc	23340
cccgagggca	ggattgagca	cgagtgaact	atttcaagtc	aagattcttc	aaaaggaaaa	23400
aaaaacacag	atacagcctt	taggaaattg	aaactgcttt	tattgaaata	ctgaaataag	23460
agaaataaga	atgtgcatgt	gtggcagccc	ccggccaacc	ctgcacgccc	gagggggtgc	23520
gggggttggc	cgagcccgaa	acctgacacc	cgaccccccc	cctcaggggt	agaagcgacg	23580
aagggttctg	atgttccacg	ggttaggcag	ctcaatggcg	tcgcccgtgg	ccagccgtat	23640
ggagcccgcc	cgggggacgc	cgaccactcg	atacggaccc	tcccacattg	gtgagagctt	23700
gctcaatcca	gcagcgcgtt	ggacgcggcg	taggacgagg	tcgtcgacgc	agagtgcagc	23760
ggcccggacg	tgacgtgat	ggtagcgccg	caggctctgc	tggtagcgcg	cggctctgag	23820
ggccgcgcgt	cgccttcgct	cttccaagta	gtcgaggctc	tctctgcgaa	gctgatcttg	23880
atcagcctcg	cagtacatgg	tggcccagag	agacctcagg	gtgagctcgg	atgggagaac	23940
cgcttcgcgc	ccgtagacga	ggaagaaaag	cgtttccccg	gttgctcggc	ttggtgtagt	24000
tcggtttgcc	cagagcaccg	ctggcaactc	ctcgatccat	gaatcgccgt	gcttcttgag	24060
tatgttgaag	gtcttgggtt	taaggccttt	gaggatttct	gaattggcgc	gctccacttg	24120
gccattgctt	ctgggggtgg	cagggtgagg	gaagcagagc	ttgatgccc	tgtcttcgca	24180
gtagtcgccg	aagagttcac	tagtgaattg	ggtgccatta	tcgtaataa	tacggttagg	24240
cactccaaac	cgggccgtga	tgcccttaat	gaatttaagt	gcggagtgc	tatcgatctt	24300
gacgaccgga	taagcctcgg	gccacttagt	gaacttgctg	atcgcgacat	acagatactc	24360
aaaccgcgcc	ggggcccgcc	taaacggtcc	caggatatcg	agcccccaga	cagcaaatgg	24420
ccacgaaagt	ggtatggtct	gcagggcctg	ggccggctga	tggatttgct	tggcgtggaa	24480
ttgacacgct	ctacatcgcc	ggaccaggct	gaccgcacat	ttgagagctg	tcggccaata	24540
gaaaccctgg	cgaaaagctt	taccaacca	ggtgcgcgag	gcggagtggg	ctccgcattc	24600
gccttcatgg	atatcgga	gaagcacaac	gccttgctcc	cgagggaatg	acttcaggag	24660
gattccatta	gccgcgcgc	gatagaggg	cccttctacc	agcacgtagc	gtttggagat	24720
gcgatggacg	cgttactcc	cttcgcgggc	ctcgggtaaa	gtcttatctg	tgaggatgc	24780
ttggatctcg	gcaatccaag	caatcaatct	aaggagctg	ggagcgctcc	cctcgggtcc	24840
cgaggcctgg	acttcaacgg	gcctcggggg	ccggtcaggc	gcgtccgtct	cccctaaggg	24900

gtcgggtcgc	gccgacggct	gggcaagcct	ttcttcaaag	gcgcccgggtg	gggtctgggc	24960
tcgcgtggac	gcgagccgtg	agagttcgtc	ggcaatcatg	ttatcccgtc	tgggcacatg	25020
ccgaagctca	atcccgtcaa	aatggcgctc	catacgccgt	acttggcgca	cgtaggcgtc	25080
catctgcggg	tcagagcacc	ggtactcctt	acagacttgg	ttaacgacca	gctggggagtc	25140
gcctaacacc	aggaggcggc	ggatccccag	tccagctgcc	actctgagtc	cggcaaggag	25200
tccctcgtac	tctgccatat	tgttgggtcgc	tcgaaagtcg	aggcggacca	agtatctgag	25260
gacgtctccg	ctcgggagagg	tcaacgtgac	ccccgcaccg	gcgcctgaa	gagacaggga	25320
gccgtcgaac	tgcattaccc	agtgggcggg	gtgaggcagc	tgcgaggggt	ccgtgctggc	25380
ctcggggatt	gagacgggct	cgggagccgg	ggtccactct	gccacaaaat	cggcgagagc	25440
ctggctcttg	atagcgtggc	gtggttcaaa	gtgcaaatcg	aactcagaaa	gttcgattgc	25500
ccatttcacc	accgctcctg	taccgtctcg	attatgcaag	atttgaccga	gggggtaaga	25560
cgtaaccaca	gtgacccgat	gcgcctggaa	ataatggcgc	agtttccctcg	aggccatcag	25620
aatagcgtaa	agcatcttct	gggcctgagg	gtatcgggtt	ttggcgctcc	ggagggcctc	25680
actaaciaag	tagacggggc	gctgcacctt	tcggtggggc	cgatcctctt	cgttaggggc	25740
cgcattccctg	gggcactctt	cgtccaagca	gcctcgcggg	gcgcacttgt	cttctgtgct	25800
gatgacctcg	gggtcggagg	ataacagggg	cggccttccc	acagtggctt	tggggccgtc	25860
ctgggggtca	ggggctcctg	gcgtcgtcgg	acaagcgggc	aaagggccaa	ctccggtcgt	25920
caggggcctt	aggcctccgt	tcggctcggg	ggcctcttct	ccctgctctt	tcccgggtcg	25980
agtcaggaca	gggttagcct	cggggtcaaa	gggcgatagg	tgcggccttc	ccacagtggc	26040
ctcagggcct	tcctgggggt	cgggggctcc	tagcacctgc	tgacaagcgg	gcagagggcc	26100
aactccggtc	gtcggggggc	tcggggccacc	gttcggctcg	ggggcctctc	ctccctgctc	26160
tctcccgggc	caagtccgca	caggggtggg	aagcgcgaaa	tgagaattgt	cctcatcgcg	26220
ctccacaacc	aatgccgcac	taactacttg	cggggtcgcc	gctaagtaga	gtagcaaggg	26280
ctcgtctggc	tcggggcgga	ccagaactgg	gggagagctt	agatacgctt	tcaactgggt	26340
gagggcatth	tcagcttctt	tcgtccagggt	aaacggtccg	gagcgtttga	gaagcttaaa	26400
taagggtaac	gccttctctc	ccagcctcga	tatgaaccga	cttagggcgg	ccatgcaacc	26460
ggtgacgtat	tgcacatccc	taagtttgct	gggggggagc	atccgctcta	tagcccgtat	26520
cttctcgggg	ttggcctcaa	tgccccgggc	agagaccaag	aacccgagaa	gcttgcccgc	26580
aggtacaccg	aacacacact	tatcgggggt	taattttatg	cgggcggagc	ggagactctc	26640
aaaagtttcc	gctagatcta	tgagtaacgt	ttcctgggtt	cgcgctctta	caaccaagtc	26700
atcgacataa	gcttcaatat	tacgtcctaa	ttggctaccc	aaagaaattc	gagtagtacg	26760
ttgaaaagta	ggacctgcat	tctttaaccc	gaagggcatt	gtcgtataac	aataggttcc	26820
tatgggggta	atgaacgcag	ttttttcctc	atcctcccta	gccatgcgaa	tctgatggta	26880
accagagtat	gcattctagaa	aacacaaaag	gtcgcacccc	gcagtggagt	cgacaatctg	26940
atctatgcga	ggcagggggg	aaggatcctt	aggacatgcc	ttgttaagggt	cgggtgtagtc	27000
gagcgacatc	cgaagcttgc	cgttcgcctt	gggaacgacc	accgggttcg	ctagccactc	27060
ggcggggttg	acgctgccat	catatttttc	ggcgatgggt	ggccggaacc	ttggggggcca	27120
accgacattc	cgaagactcg	ccacaaaggc	ctcacagccg	acaccaccaa	ccggggggcac	27180
ggagggctga	ttccgcgctc	cgtgttgagg	tgacactctg	gacgaggaag	cgccctccgt	27240
tgcggtggga	gcacttcggg	cattacgcgg	gcgctcgatg	ctgggtgcggg	cgtccggccc	27300
cccacgcaga	tctttctggg	tcgaaggagt	cgacgaagga	gtggcgggccg	aatggcggaac	27360
agcggctgcc	gctcgtcgtg	ccctccgtct	tgacgacggc	gagccggtgg	tagcagcacc	27420
agaggccttg	gtggcgaggg	accgcccacc	agcatctagg	cgctgccgta	ccgtcatgac	27480
taatttggcc	acgtcgtcca	gccatcgttg	ggctggagac	tccgggtcag	ggacgacagg	27540
cgggtgacgt	aagagcgcgc	ccgcagcttg	gagcgcgccc	tggggcgtgc	tgccgtcgcc	27600
gtagacgagg	aggcgacgct	ccccatctcg	ccgttcttct	ccatcgcccg	cgtcgggtga	27660
agtcgcggat	ctttcgaccc	tctcgagcgc	ctccccccgc	ttaggacttt	ggcgtggagg	27720
gagcgggtga	gtacgagctc	gacggcgtgg	gttcggctcc	ccgtcgtcgc	cactcacact	27780
cggagagagg	tcgtgcgcct	ttgcttgctc	ggccatcagg	ctgaacagga	aaagcttggc	27840
gcacacggaa	gagtagcaga	gctcagaaaa	acacacactg	agtcccctac	ctggcgcgcc	27900
agatgacgga	gcgtggggct	cctcacccgg	agaccgcgca	ggccccctt	tgccggttcg	27960
gccggggact	caggggtgaaa	ttctaagctc	tctgtatgtg	gaaggttcgc	gaccgtcgaa	28020
agagcataag	acacgggcga	tgtatacagg	ttcgggcccgc	tgagaagcgt	aataccctac	28080
tcctgtgttt	tgggggggac	tgtgtatgaa	ggagctacaa	agtatgagcc	agcctctccc	28140
ttgttctggg	ttccgaatct	ggaaaagtcc	agtcagatcc	ccccctctaa	gtgggcaagg	28200
tcctcctttt	atatcttaag	gggataccac	atgcaccatc	tccctccttt	ctgtggggac	28260
ttaccctacc	ttttcataaa	tggacggaga	tttgtatagt	tgcgctccga	atgaccttct	28320

gataggacgg	cccataccta	cctccacttc	cgccgaaagc	aggtgcgacg	tgggattatg	28380
gctgtctgct	gacgacatga	ccagtgtcag	actggtcaca	aattgctcat	tccgtgccac	28440
cacgcgtcag	tttagcaatc	tacatgtttg	cccttcttca	cacaacatct	tgccgtgaat	28500
ggttaggatg	aagcctggca	tatatctaac	caggactaac	gtgccatctc	taggaggtaa	28560
cacgctagct	ccagctgggg	acgagcgctt	agaagccctc	gtcctgacgg	gatggggcga	28620
ggcgtgctgc	agatcgcttg	tcgccaccta	acccgcgctc	tgaccggtct	gtgactggtc	28680
acagaccgga	taaacgagtg	cactgcactt	cgttacatgc	ggcgtgacac	gctcagccaa	28740
accgcaataa	atgtgggttag	gtgagccccg	ctgtgctcac	ctaaccata	cacgcggagc	28800
aaaaacccac	gaggggtcgg	ggcgccctcg	ccctcggggc	cgaggcggtt	gcggtccgac	28860
cccctcgggg	ggactaagag	gagggcgaa	acatcaccct	cgggcccgac	gtcccccgag	28920
ggtgccaggc	cacgtgggag	attgtgtctg	cctcaaacct	ctagtcatga	tactcctgat	28980
cccatgtcat	cgacaaggcc	atccgaatgt	attaaggagt	aaaagttaca	agaaaaaaca	29040
ccacaatgca	ccaaggtgca	tgaccacaca	ccatacacta	cccccaagca	caaaccactg	29100
aggggtgaagc	ctagcaccaa	acgaccgcca	ctaagtgtga	ccaaacgccg	ctaggcctac	29160
ggcagcaaca	catagatgag	acttcgaaaa	cgatgccacc	aaggtggtca	cgacatgtag	29220
gatgctgcc	tcgtccatct	aaaaagatgt	ggttttcacc	cagagaaact	catcaagaag	29280
gggagggggt	aaccccttgac	agcgccccaa	ggaggttacg	acgcccgaag	gcgtagccgc	29340
tgcgggtccg	gtgaaccacc	ggactaggct	tcgcctagg	accctatagc	cttgatcgca	29400
gatcaccgtc	caccactcag	aaccaccaca	cagacaaaag	gtagcacgta	gcttccaccg	29460
caccgcaccg	acgccccctt	gtcggccgac	tccatcgaac	caccatccct	gagagctggc	29520
ccaggacccc	tccgttccac	caccgcgcgg	ccgccttgcc	agttttggcc	aaaggagaac	29580
ccgggactgg	gtgacattgc	ttcggcagcc	tgagcttccc	ccgctggcga	gctgctgtct	29640
caatccaacc	tagaaactcc	ccgcaaaaga	aggggatgag	ctctaggaag	ggcgagggtg	29700
ccgaccggca	acgaggaaga	caaccatcgc	actccagctc	cctttgcact	accatctggg	29760
cctgcgccaa	tgccggatac	gctgtcgcct	cggtccgggc	gccaccacc	tgcacccctt	29820
ttgcctggtc	tccgcgcccc	tccgtgctgc	gtcgcgcgc	ccagctggcc	gctaagggca	29880
ccacgacggc	cgcccggtta	ccgaggcctg	gcccgcgcct	gggacagctc	gcgctggcac	29940
cagcgagcca	cggccgtcgc	gctgttgccg	gcccagcgga	gcacaaccgc	cagctccaag	30000
ggccgagcat	gccactgagc	cgccgcgcgt	gcccgcgcgg	ccggtgcac	gtcaccggcg	30060
cacacgaccg	cacgcgcgca	cgctccgcct	ccgcgcgcga	ggcagcccca	tgccattgcc	30120
gcgcacctcg	cccgcgcgct	gcccgcgcgc	caccgcgcac	cttgctgagc	cgccaccgcc	30180
gtccctagcc	gectcgtgcc	gcccgcacgc	cagatccagg	cgcgggatgg	ccgatccgg	30240
ccttgggggc	gcccgatccg	ccgcctcccc	acaccgccac	ggcgtcacca	cctccgaccg	30300
cagttagggc	ttcgtcgttt	gccccatcct	catcgcgtcg	aggaggaaga	cgccaagaaa	30360
aaagggccct	gcccgtgcct	tccctgctcg	ctgcgcgctt	cgccgcgggc	gagctccggc	30420
ggcggcgagg	tgggggagaa	gaagtgggga	gtgggcagct	aggggttttt	cgccccccaa	30480
gcccgcggtg	cgagagcgac	ggtggggggg	gggggacttt	ccaacctctt	ccagtgttct	30540
agttctccac	gttatgtaac	tcaatttgtt	taaccataga	aagtaagaaa	cctaccagcg	30600
tgtaagctc	tctttcattc	cctttcttct	tccgtgtttt	gcttccatca	catgtcaagt	30660
gaagggttct	taactaccat	tactcctaca	catctaattt	ttttctcaga	tctttcgcag	30720
gtatatattg	atgctacatt	ttatgatctt	aagataatct	ccttcacatt	accctctgct	30780
gaaacttttag	cttgaaccgt	catcttcacc	acaatttgag	cccaatttgc	acagagcaca	30840
acgagcaata	gcttgccctt	acgttcatta	tttagcatga	actactacta	actaccaag	30900
aatcaatata	ccggtttaat	aacgccattt	tatcacgtta	atatatgttt	cattcaacac	30960
accggttttg	gcacagttgc	aaacttgcaa	taaattcttt	cctacttctc	catcccataa	31020
tataacaaat	tggtatgtct	cgtctggtac	taagttgcta	tattatgaga	tgaggggagc	31080
acttcttttc	ttccaaaata	taagaatata	gtattggatt	agatattatc	tagattcacg	31140
aattcgatta	ggttgtctag	atattatagt	gtatgtaatg	tataattcgg	taatagggtta	31200
ttacctctcg	ggatggaggg	agtagttttg	actttttttt	ttcttataaa	tcgctttgat	31260
ttttatatta	gtcaaatttt	atcgagttaa	actaagttaa	tagaaaaaaa	ttagcaacat	31320
ttaagcacca	cactagtttc	attaaattta	gcattggaata	tatttttgata	atatatttgt	31380
tctgtgttaa	aaatgctgct	atatttttct	ataaacgtag	tcaaatttta	ataagtttag	31440
ctaaaaaaaa	tcaaaacgac	ttataaatag	aaatggaggga	agtagtagac	tataacaaat	31500
ttaaaccgtg	ctttgatttt	agagcatcac	taatatgtta	gcaataatct	atccctaaaa	31560
tttatTTTTT	ttcctaaact	gaaaaatagg	agtggaataa	ctcctccatc	taagagagag	31620
cctaaattca	ataaaaaact	aaaaaactaa	aggtggatcc	ctctattaaa	ctaccgcaaa	31680
aaatttatgt	tttttttctc	ttccacgcgc	gcagaacaga	tatctcgatc	aagtttagcat	31740

gtaaaat	ttt	ttaaagagata	ccttatacga	ctccttccgt	atttccaaaa	gcaaacggat	31800
ttaaaatctg	actcaaataa	agatctatat	atccaattta	catgacacat	gtttcgccga		31860
atttttatat	taataataat	taatat	ttt	aaaattaaat	tattagcaat	ttgtttggag	31920
gatttatcaa	aacaggatgg	acgttg	ttt	taacagcgtc	tagacctaga	cgcgcttgca	31980
aactgcggcc	acccttttat	cacacaaatt	tttgacaatt	tgacactttc	caaaaattaa		32040
ttttataaat	taaccgtgac	caaaacttat	ttaaaaataa	tctttttgtt	gagcgcaaaa		32100
tcgtatactt	cagcgccaaa	tagcacggcg	ccgacctccc	ccttcccctc	ccctctatcc		32160
tccactgctg	ccgcccacct	ctccgtatca	gctgcgtcgc	gttggtttcc	gccggcgctg		32220
ctgctgctgc	accagtccgc	tagggcgggc	gggcatggcg	cgcgcgcgcg	cttcccgcgt		32280
ccgcgcgggc	gctgttggcg	cccttgcgtc	ggagggctcg	acccaagggc	gagggggccg		32340
cacggggggc	agtggcgccg	aggacgcacg	ccacgtgttc	gacgaattgc	tccggcggtg		32400
cagggggcgc	tcgatctacg	gcttgaactg	cgccttcgcc	gacgtcgcgc	gtcacagccc		32460
cgcggccgcg	gtgtcccgt	acaaccgcgt	ggcccagacc	ggcgccgacg	aggtaactcc		32520
caacttgtgc	acctacggca	ttctcatcgg	ttcctgctgc	tgcgcgggcc	gcttggacct		32580
cggtttcgcg	gccttggggc	atgtcattaa	gaagggattt	agagtggacg	ccatcgctt		32640
cactcctctg	ctcaagggcc	tctgtgctga	caagaggacg	agcgacgcaa	tggacatagt		32700
gctccgcaga	atgaccagc	ttggctgcgt	accaaattgc	ttctcctaca	atattcttct		32760
caaggggctg	tgtgatgaga	acagaagcca	agaagctctc	gagctgctcc	aatgatgcc		32820
tgatgatgga	ggtgactgcc	cacctgatgt	ggtgtcgtat	accactgtca	tcaatggctt		32880
cttcaaggag	gggatctg	acaaagctta	cggtagacatac	catgaaatgc	tggaccgggg		32940
gattttacca	aatgtt	cctacagctc	tattattgct	gcgttatgca	aggctcaagc		33000
tatggacaaa	gccatggagg	tacttaccag	catggttaag	aatggtgtca	tgctaattg		33060
caggacgtat	aatagtatcg	tgcatgggta	ttgctcttca	gggcagccga	aagaggctat		33120
tggatttctc	aaaaagatgc	acagtgatgg	tgtcgaacca	gatgttgta	cttataactc		33180
gctcatggat	tatctttgca	agaacggaag	atgcacggaa	gctagaaaga	tgttcgattc		33240
tatgaccaag	aggggcctaa	agcctgaaat	tactacctat	ggtaccctgc	ttcaggggta		33300
tgctaccaa	ggagcccttg	ttgagatgca	tggtctcttg	gatttgatgg	tacgaaacgg		33360
tatccaccct	aatcattatg	ttttcagcat	tctaatatgt	gcatacgcta	aacaagggaa		33420
agtagatcag	gcaatgcttg	tggtcagcaa	aatgaggcag	caaggattga	atccggatac		33480
agtacacctat	ggaacagtta	taggcatact	ttgcaagtca	ggcagagtag	aagatgctat		33540
gcgttat	gagcagatga	tcgatgaaag	actaagccct	ggcaacattg	tttataactc		33600
cctaattcat	agtctctgta	tctttgacaa	atgggacaag	gctaagagag	taattcttga		33660
aatgttggat	cgaggcatct	gtctggacac	tattttcttt	aattcaataa	ttgacagtca		33720
ttgcaaagaa	gggaggggta	tagaatctga	aaaactcttt	gacctgatgg	tacgtattgg		33780
tgtgaagccc	gatatacatta	cgtacagtac	tctcatcgat	ggatattgct	tggcaggtaa		33840
gatggatgaa	gcaacgaagt	tacttgccag	ctcgtgtctca	gttggaatga	aacctgattg		33900
tgttacatat	aatactttga	ttaatggcta	ctgtaaaatt	agcaggatgg	aagatgcgtt		33960
agttcttttt	agggagatgg	agagcagtgg	tggttagtcct	gatattatta	cgtataatat		34020
aattctgcaa	ggtttatttc	aaaccagaag	aactgctgct	gcaaaagaac	tctatgtcgg		34080
gattaccgaa	agtggaaacgc	agcttgaact	tagcacatac	aacataatcc	ttcatgggct		34140
ttgcaaaaac	aatctcactg	acgaggcact	tcgaatgttt	cagaacctat	gtttgacgga		34200
tttacagctg	gagactagga	cttttaacat	tatgattgg	gcattgctta	aagttggcag		34260
aaatgatgaa	gccaaggatt	tgtttgacgc	tctctcggct	aacggtttag	tgccagatgt		34320
taggacctac	agtttaatgg	cagaaaatct	tatagagcag	gggttgctag	aagaattgga		34380
tgatctat	ctttcaatgg	aggagaatgg	ctgtactgcc	aactcccgc	tgctaaattc		34440
cattgttagg	aaactgttac	agaggggtga	tataaccagg	gctggcactt	acctgttcat		34500
gattgatgag	aagcacttct	ccctcgaagc	atccactgct	tccttggttt	tagatctttt		34560
gtctggggga	aaatatcaag	aatatcatag	gtttctccct	gaaaaatata	agtcctttat		34620
agaatctttg	agctgctgaa	gccttttgca	gctttgaaat	tctgtgttg	agttcttttc		34680
tcctacagtt	gtattagagg	agggatcttc	tctttatgtg	taaatagcga	ggtatgtatg		34740
tcacctctcc	gaattat	tactctgggt	cctagacgg	aaacaagcaa	ttatgttctg		34800
cctttgatgc	cagaaaaaac	acaaaagt	gtcgttatct	ctactaacgg	atcataaagg		34860
aaattgtaac	tggaagt	aacttaatt	gtctaggcag	tagttttggc	attagatcca		34920
acattgtgta	ggattcat	gtgtgtatca	atctatagg	tttcattaaa	tttcgtta		34980
gtgtactgtt	taggtgttga	atagtttgac	ttgtttttta	actgaacaaa	agatactgaa		35040
atcgttccat	tcaacaaaca	catgttccgt	taatgaaat	attgtacgtt	accttttggt		35100
ttcttactca	caagtgtcct	cttttcttat	atcctataga	ttggtacaac	aaattattga		35160

ttcaatitttg	gttttgaaca	ttgatgatcc	tccctgcact	attggtgcag	ctgctcttct	35220
attcattttg	tgaagtgatg	tgagtacctc	tcaatcccat	ccttatgctt	ctgtgcatgc	35280
ttcattccaa	ttttttacgc	atatcgattg	ttttctttta	tataacagtc	cataaagata	35340
atcacatcat	gacaaagtta	tttattttcta	cagtatagtt	atataagtat	tcaccagttt	35400
tccatgaata	ttttggcatg	tgattacaaa	gaagattatt	tgagaaaatc	catgctttta	35460
tttcatcttt	ttgtttgaag	ttgaacttta	atttatgggtg	taaatttcag	ttattattgc	35520
tagcagctcg	tactctttta	tggtataact	tcacttgtgc	ttattctcca	atatctccct	35580
tcttgttgtt	caggttcaag	aaaatcattt	gttggattca	gaatctggtg	tccattttct	35640
tcttaaatta	ttaaactctc	cagtgaatct	tgttgattcc	aaagcaccat	cgatagggtc	35700
caaacttctt	ggaatcagta	aagttcaaat	gcttaatgga	tcaaataagg	attctgactg	35760
catttcagag	gaaatccttt	caaaagttga	agagattctc	ttaagctgtc	aagtgatcaa	35820
gtcgtcgcac	aaagatgaca	agaaaacaac	aaggccagaa	ctgtgtccaa	agtggcttgc	35880
tttgttgaca	atggaaaatg	catgcttgtc	tgctgtttca	gtagagggtg	agttttaatc	35940
aaatttcttg	gtcatgattt	ccctttatga	ccatttatatt	tatttatatg	agccaaataa	36000
gcagttgtca	acttgtcata	agttacatag	cacctatttg	caatattcat	gggtggtttg	36060
cttagccctt	ttcttcacct	gcttttgatt	gatgacttcc	atctgtgttg	cagaattgaa	36120
ttggagtagt	ggactgcact	agaagcacct	atggccattg	tcatactagg	aagggtttcc	36180
cttatcaaat	atttgattgt	tacagagact	tctgacacag	tgtccagagt	tggaggaaat	36240
tttaaagaga	cattaaggga	gatgggaggt	cttgatagta	tttttgacgt	tatgggtggat	36300
tttcattcaa	cattggaggt	gagatctcgc	taacatcgca	tattttacat	ttcctttgtt	36360
caactctaata	ggattgtgca	ggcttgttcc	ttttcgccat	tttagcttta	atgtgcttga	36420
agccacatga	aagtaatgct	tgtccagata	catagccaaa	ggttggttata	ttttggggca	36480
tggaaaatgc	ttgaggtagt	aactattttc	atcaggacat	ggaaaattgg	ctgcaacaca	36540
aattatgttg	ttttatgttg	caaaaatagt	tttttaatac	ttttttattc	tgcagtgtgt	36600
gttagtatct	tacagttcct	ctgatgatta	tatccccac	gataataaca	cttgaaacga	36660
taataacact	tgacatatct	acaccaagtg	aacattattc	atttggtagt	tacttttcca	36720
gctatacttg	ctgttcttgc	atgtgtaagc	aagtttggag	taaattgcgc	attaatttaa	36780
atgcttggtg	ttcctatctg	tgtacttttt	attccccaac	taataatgca	atcatattac	36840
gctgataaac	tgaataaata	aattaacaat	atacttctgg	tggcaaacct	tgtgtatcag	36900
aatctcataa	aggatacatc	cacttcagct	ttggaccgaa	atgaaggaa	atctttgcaa	36960
agtgtctctc	tcctcttgaa	atgtttgaaa	atattggaaa	atgccatatt	tctaagcgat	37020
gataacaagg	taatgtctct	tatatgttct	gtttcagttt	agtacccatt	tccttcttct	37080
gtactatatt	ctctcctgat	ttgttctgtg	caaaatgtgc	aaacagtgcg	actttgtatg	37140
tctgcttaac	aattttcttt	tcttcttgaa	aaagcaatat	gaactcttac	attcattttg	37200
cttcttgag	acccatttgc	ttaatatgag	tagaaaattg	aaccggaac	gctccttgct	37260
ttcttttgtt	ggtgtcatta	tcaatactat	tgagttatta	tcaggatatt	ttcttaataa	37320
tacaatgtgt	tcgctaacac	aataaaatgt	tttaaacatc	cagtatgtta	aagttgcagt	37380
ctgacgccta	ttttgttttg	ctgcagctct	ttcaatactt	cagaattctt	ctgttggttc	37440
cagctctaca	tatccgaaat	cgtctaaagt	ctctcaacag	agttactctg	gtaataacaa	37500
acaccaattt	tgtttgatca	gttgatctcg	ttggcttttc	tatgcactgt	ctcaatatag	37560
tttggtcgcc	attcaagtct	cactacagat	gttgaacttg	gcctgacacc	aaatatttat	37620
aaaatgctac	ctgatatttt	taatatattca	tgtttcctga	cccagattat	cttggttggtt	37680
cctcgataaa	gtttaattag	tgacattctt	gaagctttgt	tatgcagcag	atgtcatggg	37740
gggaacttca	tttaatgatg	gaaagagcaa	gaactcgaaa	aaaaaaaaact	tttgctgaac	37800
cagacacgtc	attggttgctt	atcttcaaaa	tcagaagttt	ctcatattac	tatatcttct	37860
ggtagtgatg	ctggtctgtc	acagaaggca	ttcaattggt	ctccatttat	atcaagcaat	37920
ggggcatcaa	gtggttcatt	aggcgagagg	cacagcaatg	gtagtgggtt	gaagttgaat	37980
ataaaaaagg	atcgtggcaa	tgcaaatoca	attagaggct	caactggatg	gatttcaata	38040
agagcgcaca	gttctgatgg	gaactccaga	gaaatggcaa	aaagactccg	tctatcttaa	38100
aatgtaatca	ccgacagtgg	tggtggtgat	gacctttttg	catttgaccg	ccgcgtcggc	38160
gtcgccacca	cgtaatcgcc	cacgtcgctg	cccccgctgc	cacgtcgctg	accgcgcacg	38220
gtaatcacac	gcactctcgag	gccgcgcgta	gctgatattc	tctcatccgg	ttgatttgtg	38280
attttggcgt	ttttgcagtg	gtgatggcgg	ggggcgaccg	tggccgaggc	gtggagtggc	38340
atccgcatca	gggtgtattc	gccgcgctgc	tccgcccctg	tccgcaggct	ttggcggcga	38400
gctggcgggc	gagggagact	gtggtgagat	cggatttgcg	cgctgggtgg	gtcgctacca	38460
tgggggatcc	gccgcaggcg	ctctcaggtt	tgcagcctcc	tccactctct	ttcctttttt	38520
attttttttt	ctcgcaaaat	gtggtgtgat	gttcgtctcg	ctgggcaggc	ctcatagcca	38580

ttaatgtagt	ttgctggaac	atttacattt	ggaacgttgt	tggcaattgc	ttgacaaaat	38640
gtggaattgt	ggaggggaga	aaaatcattt	gaacctgcag	tgacaaaatt	gccatctcta	38700
attttaaaac	tgaaggtgtg	gaaatcaaac	ataatcattg	ccagcgcata	attcttgtta	38760
accaccatga	tatatgtgtg	gttataacag	ttagctccac	accaaccttg	aaggtgtcaa	38820
tagaatgttt	agtataaatt	gaggagaaca	ggcagtttgt	aagactttct	aaagaacttg	38880
tagcagctaa	tactagctat	tgtgcatttg	tgtttcatgg	aatttgagca	gcaatggata	38940
tttcttacta	agatgtatga	tgcaaaaaca	aaaactatgt	ctatacagtt	tacatgtaat	39000
gtgcggatgc	aaataaaatc	atgtacatgg	acaaactcat	gggattcata	ccgaattcca	39060
gaattgcatt	tcttatgtgg	ttacttttgt	tgttgatttg	gttaccagac	atcgatgtga	39120
tttcaagggg	cagaggggtt	tgcttctacg	cgggtggctgc	agttgcagca	atctttttgt	39180
ttgtcgccat	ggttgtggtt	catccacttg	tgctcctatt	tgaccgatac	cggaggagag	39240
ttcaggaaaa	aaatttgaaa	ataccatttt	tttgaaaaag	atttacgttt	atatacacta	39300
gtatgaagaa	tttgcgaaaa	tataactaat	ccgcagatcg	gttatgcggg	agcgcaacaa	39360
aagtatggcg	tggcggcgcg	gagtggacgg	ccgagggcgt	cgcgcggaat	ggggctgcgg	39420
gaccgagcca	gtctcgcttg	ccggtaacgc	ggaaccggta	cgtcccgcga	gcgccagtgt	39480
gcggaaccgc	ggcgccaaca	tttttttact	gcatggcaat	gtgtttaata	ctgtttgaca	39540
ctgtttcttg	tactgtttta	cacagttccc	gggtcagttc	cgcacaatgg	aggcgcggca	39600
ccgaccatga	acaatgtgtg	aacagtgtcg	cacaggggtta	aaacagtgtg	taaactgcgc	39660
tgcacagtgc	tggagtgcgt	ggccactgcg	gttcgcgcgt	ttggaaccgc	gggaccgtcg	39720
cgaattccgcg	ttttggagct	gccggaccat	gacggttccg	cgcaggatcg	tccgtcccgt	39780
attttgaatc	ttcggaaccg	tcgctgtccc	cgttttccgt	ttcgcgggat	gcgtatatatt	39840
ttataaaacc	tctccatgca	tgtatataaa	cataaattat	tgaaaaaata	agtatatattg	39900
caaatttttt	tcgagagctc	agcactacat	tgcaaagatt	tgggcaactc	tgacaatttc	39960
catgtttctac	aagcttgacg	tcgagggaat	ggagaacctg	ccaccgaata	gtagccctgc	40020
tatctatggt	gcgaaccatc	agagtttttt	ggatatctat	acccttctaa	ctctaggaag	40080
gtgtttcaag	tttataagca	agacaagtat	atttatgttc	cgaattattt	gatgggcaat	40140
gtatctctta	ggagtaattc	ctttgcggcg	tatggacagc	aggagccagc	tggtaggct	40200
gtagtctcat	ccctgctttc	tttaagtagac	atatatgcaa	ttacagaatt	tggtaaacia	40260
acaagatttt	atgaatcata	tatgattttg	gggaaaacac	caaactctct	ttggtaggctg	40320
ccttgaacat	agttctattc	acacagttat	agcaccttct	ttaaaatgaa	gaactttgtt	40380
gcatacacat	atggccaaac	cacataatga	attttgttta	tttctatctt	tgaatgttag	40440
caccttattt	tcatgcata	catgctaatt	tgtttgccca	cgttgagtgg	gaattttttt	40500
ccatgtttta	taattttatat	atgttctaga	cttctagtcc	acaattttatc	tacttcatgt	40560
tcttgagcct	ctagtatggc	tggttagcaga	ctaggtgtcg	agtgtgtgcc	atttttgcag	40620
actgaagaga	ggagaaatac	aggactgtcc	gttggttagtc	agatttgtaa	aaatagactc	40680
tgatgtagtt	tatttttagcc	cctattttat	atttaacaat	acaaatata	aacgtatcct	40740
aagaacttat	cgtaatttag	gagaagttgc	tcgtttcatt	aaatttaaact	gtgaagtaaa	40800
aatgtgtgct	cgagctctgc	aatgcaatcc	tgtgttcttg	tttgaagata	tgggtgtaggg	40860
caggctagga	tcgaacactg	aatggtaaga	ctgcttctgc	cttcatttgt	gcacttgggtg	40920
ctgccacgcc	gattaagcag	tagaaciaaag	taattttgtc	gtgcacaaat	gagttatatt	40980
tcattgaaaa	tcgaagtga	aatgaaccaa	aagatagaag	aaaaggggaa	acttggtaat	41040
tataactcc	acaaatttat	tggtaagatt	tgatattaga	cgtcggatta	cttggcttaa	41100
gttaaggata	tcaaatttgg	ggaagcacca	aaggaattat	tgtgaaggag	ttgtgggtgc	41160
ataacgttat	ctactaggtt	caaactctag	tgactatgaa	tattaatgag	taaggtaagg	41220
gatttattgt	taatttttagt	ttctttaaga	ttgtgtccgg	gtacaccatt	cggtaagtgt	41280
aataatgttt	tgtattggat	tcacttgtgt	tacgtgcattg	tgattttacct	tttcatttgt	41340
ttctgcgttc	tgggtatgaa	tttgacgaga	ttccatggtc	agctcaacat	atcagttact	41400
gcgtgtcaag	cgatcttata	tggtagcgc	acaagcgatt	gtatacggat	atgacagtat	41460
aacgtgtgat	attgatacga	tgttcctttc	ctttataaag	gaacaaagac	ttttttaaaa	41520
aaaagaaggg	gtattactaa	aaacccaaat	gtcaaaaaca	aaatatcagt	gcacatggca	41580
agtgtgcacg	agcaatagct	tgcctttacg	ttcattattt	agcatgtact	actactaact	41640
acgcaaaaat	caattcaccg	attattaaac	tgttaacatc	attttagcac	gttaacatat	41700
gtttcattca	acacaccggg	tttggcacat	ttacaaactt	gcaaagttgc	aatactccct	41760
tcgttacata	gcataagaga	ttttaggtga	atgtgacaca	tctatccaaa	ttcattatac	41820
tagaatgtat	caccgcctcc	acgcccggag	ggagagcgcc	gccggtggag	aaagggggag	41880
ggagtggctg	aggggaacca	gtaggggtgc	ctcccgtcg	ccgcctcccc	gtggccgcgc	41940
cggcgagaca	ggagggaagag	ggggatatgg	agcggcgccg	ccggtgaggg	cgcgcgcgcg	42000

gggggggagcg	gcgacgcgcgg	tgaggaaggcg	aaggggagtg	gtggccttga	gagagatagg	42060
ggggaggaaa	aatgatttta	gagttagggg	ttgggctgct	gagtttttat	atagatcggg	42120
atcaatcagg	accgtccatc	agatcggaca	actacggctt	ctcccgcggt	gggcccgggtg	42180
ccactcctag	gttgcccaca	ctattggggc	acatgtacgc	tccgcgtgaa	ataagttcac	42240
tttaggtcct	ttaagttgcc	tctgaattgt	tcccaggccg	gccgcactat	tgggccaccc	42300
cataggccat	gtgtacgctc	cgcacagaat	aatttcgctt	tagctccctt	aatttgtccc	42360
ctcaaactcc	taaaaccagt	gcaaactctt	aatttttagt	tcacccattg	caactcacgg	42420
gcataattgc	tagtgacata	taatatgaaa	cgaaggatgt	agcagactat	agaattttaa	42480
ctgtgctttc	attttagagc	atcactaact	gttattttaga	tttttattta	aataaatgct	42540
gaaatgatgt	ttttattatg	aaaattagca	ataaagctcc	caaaatttca	aaaaaaaaatt	42600
aaaagagatt	tattaatcat	ggttaattta	attaaaaatt	aaatctaacc	atatcatatt	42660
atttcacggt	ccgtgatgag	gaaatggcag	ctgctatcac	ttacgggtggg	agagaagggg	42720
cattgtttat	ttttataact	atctcttata	actcccatga	aactataaaa	taaatataat	42780
cattatcata	acattagttt	tttttcatt	gcaacgcaag	ggtaattttt	cagtacaata	42840
aaaaaaataa	aagtgggcca	ttctgaacgg	aaatttctgg	ttttttttcc	caagagcgcc	42900
gcacacaact	gcgcaagaga	tcgatcgca	tcacccgtgt	cgtcgccgat	ctcctacacc	42960
atccctgcca	tctccttccc	ctccactggc	tgctgctgca	cctgtcagct	agggcgggca	43020
tggcgcgccg	cgcgcgttcc	cgcgctgctg	gcgccttccg	ctcggagggg	tcgatccaa	43080
ggcgaggggg	ccgcgcgggg	ggcagtggtg	gtttctccta	caatattctt	ctcaacgggg	43140
acgaattgct	ccgtcgtggc	ataccagatg	tcttctccta	caatattctt	ctcaacgggg	43200
tgtgtgatga	gaacagaagc	caagaagctc	tcgagttact	gcacataatg	gctgatgatg	43260
gaggtgactg	cccacctgat	gtggtgtcgt	acagcacctg	catcaatggc	ttcttcaagg	43320
agggggatct	ggacaaaatg	cttgaccaga	ggatttcgcc	aaatgttgtg	acctacaact	43380
ctattattgc	tgcgctatgc	aaggctcaaa	ctgtggacaa	ggccatggag	gtacttacca	43440
ccatgggttaa	gagtggtgtc	atgcctgatt	gcacacata	taatagtatt	gtgcatgggt	43500
tttgctcttc	agggcagccg	aaagaggcta	ttgtatttct	caaaaagatg	cgcagtgatg	43560
gtgtcgaacc	agatgttgtt	acttataact	cgtcatgga	ttatctttgc	aagaacggaa	43620
gatgcacgga	agcaagaaag	atttttgatt	ctatgaccaa	gaggggccta	aagcctgata	43680
ttactaccta	tggtagccctg	cttcaggggt	atgctaccaa	aggagccctt	gttgagatgc	43740
atggtctctt	ggatttgatg	gtacgaaaacg	gtatccaccc	taatcattat	gttttcagca	43800
ttctagtatg	tgcatacgct	aaacaagaga	aagtagaaga	ggcaatgctt	gtattcagca	43860
aaatgaggca	gcaaggattg	aatccgaatg	cagtgcaccta	tggacaggtt	atagatgtac	43920
tttgcaagtc	aggtagagta	gaagatgcta	tgctttat	tgagcagatg	atcgatgaag	43980
gactaagacc	tgacagcatt	gtttataact	ccctaattca	tagtctctgt	atctttgaca	44040
aatgggagaa	ggctgaagag	ttatttcttg	aatggttga	tcgaggcatc	tgtcttagca	44100
ctattttctt	taattcaata	attgacagtc	attgcaaaga	agggagggtt	atagaatctg	44160
gaaaactctt	tgacttgatg	gtacgaattg	gtgtgaagcc	cgatatcatt	acccttggca	44220
ggtaagatgg	atgaagcaat	gaagttaact	tctggcatgg	tctcagttgg	gttgaaacct	44280
aatactgtta	cttatagcac	tttgattaat	ggctactgca	aaattagtag	gatggaagac	44340
gcgttagttc	tttttaagga	gatggagagc	agtgggtgta	gtcctgatat	tattacgtat	44400
aacataatc	tgcaaggttt	atttcaaacc	agaagaactg	ctgctgcaaa	agaactctat	44460
gtcaggatta	ccgaaagtgg	aatgcagatt	gaactttgtt	agatttaatt	ggataattaa	44520
tccattttaa	tcaattaaat	caaataaatt	ccaaggctca	ttatgctagg	aattcatgtg	44580
aattcattct	tctatgggat	atcaatggga	tgaagagttt	tgagaattaa	tccatttgat	44640
taaggaattg	gtaacttata	tcaattaatc	ctaattgatg	gatggttgat	ggttgtgtag	44700
tggaggatgg	ttcatggcta	gttgatgaca	attagttgct	ctattcctct	tcctattcca	44760
ttggtaactt	acatcaatta	ctcttaattg	attgttggtt	gatggttgtg	tagtggagga	44820
tggttcatgg	ctagttgatg	acaattagtt	gctccattcc	tcttcctatt	ccatgactct	44880
tactcttcat	cttccattcc	tcttataaaa	tgagaatgga	tttgatctcc	cgcgagaaga	44940
agaagacaca	ctttcatcca	ttttcaaaag	ctgttgctgc	tacggtaatc	ccatcccggc	45000
gagtggtgtc	acacgcgttg	ggagagtagg	cctccgaaac	cacgcgttgc	tgcgacgttt	45060
gcacagacgg	gcgggcgac	aggttttttg	ggagcgcaag	gcgcgactac	tactgttctg	45120
tcaacatcta	cttcattctt	accaacatgt	cgaacactgg	agacaaggag	aaggagactc	45180
ccgtcaacac	caacggaggc	aatactgcct	caaactccag	cggaggacca	ttcttggggg	45240
ataaccttat	tacatttatt	caattagaag	ttttactggt	aatgttcac	gcaatgtcaa	45300
cattgtgtca	ttatgtgatt	gttgatgctt	attcaacggt	aagcatgctc	atgttgatta	45360
cattcaccac	tatcactgga	tcaaatccta	ttgtaaatat	catgtttatt	atcttgttat	45420

tttggattaa	aatatgccga	attatgacca	aatttccaac	aaacttagca	catacaacat	45480
aatccttcat	ggacttttga	aaaacaaact	cactgatgat	gcacttcgaa	tgtttcagaa	45540
cctatgtttg	atggatttga	agcttgaggc	taggactttc	aacattatga	ttgatgcatt	45600
gcttaaagtt	ggcagaaatg	atgaagccaa	ggatttgttt	gttgctttct	cgtctaacgg	45660
tttagtgccg	aattatttga	cgtacagatt	gatggctgaa	aatattatag	gacaggggtt	45720
gctagaagaa	ttggatcaac	tctttctttc	aatggaggac	aatggctgta	ctgttgactc	45780
tggcatgcta	aatttcattg	tiagggaact	gttgcagaga	ggtgagataa	ccagggctgg	45840
cacttacctt	tccatgattg	atgagaagca	cttttccctc	gaagcatcca	ctgcttcctt	45900
gtttatagat	cttttgtctg	ggggaaaata	tcaagaatat	catatatttc	tccctgaaaa	45960
atacaagtcc	tttatagaat	ctttgagctg	ctgaagcatt	ttgcagcttt	gaaattctgt	46020
gttggaaattc	ttttctccta	cagtccgatt	agaggaggga	tcttctctgt	atgtgtaaatt	46080
agcgagggtat	gtatgtcacc	tctccgaatt	attttgactg	tggttcctgg	actgtaaaca	46140
agctattatc	ttctggtgtt	gatgccagaa	aaaacacaaa	agtttgtcgt	tatctctact	46200
aacggatcat	aaaggggttt	gtaactggag	tttcaaactt	aaggtatcta	ggcagtaggt	46260
atatattgat	cctacatctt	atgatcttaa	gatgatatcc	ttctcattat	cctctgctga	46320
aacttttagct	tgaaccgtca	tctacaccac	aatttgagcc	ccttagcaca	gagcacaacg	46380
agcaatagct	tgcccttaccg	ttcattattt	agcatgcact	actactaact	acccaataat	46440
caatacatcg	gttatttaaac	tgtttgtaca	gtttaataat	gtcattttat	cacgttaaca	46500
tatgtttcat	tcaacaccac	accggttttg	gcacagttgc	aaacttgcaa	taacattttt	46560
actacttctc	cgccccataa	tataacaatc	tcgtttccata	ctatattgct	atattacggg	46620
acggatgaag	tacttctttc	cttccaaaat	ataagaatct	agtcctagat	tagatattat	46680
ttggattcac	gaatttgatt	aggctatcta	gatttgtagt	cgtatgtaat	gtctaattcg	46740
gtaatagggt	attacctctt	tggatggagg	gagtagtttt	tatttcgtac	tccctctgtt	46800
tcatattata	agttgttttg	acttttttct	tagtcaaatt	ttattgagtt	tgactaaatt	46860
tatagaaaaa	aaattagcaa	catttaagca	ccacattagt	ttcattaaat	gtagcatgga	46920
atatattttt	ataatatgtt	tgttttttta	ttaaaatgct	actatatttt	tctataaatg	46980
tagccaaatt	taaagaagtt	tgattacgaa	aaaaaatcaa	aatgacatat	aatatgaaac	47040
tgaggatgta	gcagactata	gcaaatttaa	actatgcttt	tatttttagag	catcaccaaa	47100
agagatagcc	taaatcttat	cttaactaat	taaaatattc	ataattttcc	tttcgctaca	47160
ttaaattttc	gtccgtaaat	ccgattgaaa	tccaactaga	caatccaaaa	aatagagaaa	47220
aagaacagaa	aaaataataa	aaagcacaca	aatcttatct	caatcccgcg	ggaagctgcc	47280
gatgccgcgc	aatccgctcg	agcgccgcgc	ccgcgcctca	cggggaacga	tgtcgcgtgt	47340
atcgcacgtg	gtatgggagg	gcgcgcgcgc	cgtcgtcttg	gagataggat	atggagagag	47400
aaggaaatgt	gagggagggt	taggtttttc	cccattcgta	tcttcagcga	cacggaggcg	47460
atccaagctg	tccatcagat	cagacggctc	agaacgcctc	catcttcagg	ccgcgcgatg	47520
ttgatgggcc	gaggggaaggc	cggagggtcg	aacaaacgta	gtcagaggag	gagttggagg	47580
aggtaaagta	gaatttattt	gcgggctgag	atagtaaatg	gactgaaaat	ggccccataga	47640
gaaattggga	attttattta	aataaatggt	gaaaagggtg	ttatattatc	aaaattagaa	47700
attaagctcc	gaaaatttta	aaaaatatcc	aaagagcatt	attaatcatg	attaatttta	47760
taaaaattaa	atccaaccat	atcatattat	ttcacggcgc	gcagtaggaa	aatgcgcagc	47820
tgttgtcgtc	tacgggtggga	gagaagggac	attgtttatt	ttcagaacta	tcttttataa	47880
ctcccatgga	actttaaaa	aaatataatc	attattatag	cattagtttt	tttctgtctt	47940
ttttttcccc	aagagcgccg	cgcagaagag	atcgatcgcg	atctccctgc	cccgcgctcg	48000
ccggccgatc	tctcatttct	tccacgccct	gctcgtcgcc	gatctcctac	accatccctg	48060
ccatctcctc	cttcccctcc	cctctatcct	ccactggtgc	cgcccacctc	tccgtataag	48120
acaaactgcg	ttgcggcggt	ggtttccgcc	ggcgctgctg	ctgcacctgt	cagctagggc	48180
gggcatggcg	cgccgcgcgc	cttcccgcgc	tgttggcgcc	cttcgctcgg	acggctcgat	48240
ccaagggcga	ggaggccgcg	cggggggcag	tggcgccgag	gacgcacgcc	acgtgttcga	48300
cgaattgctc	cggcgtggca	ggggcgccct	gatctacggc	ttgaaccgcg	ccctcgccga	48360
cgtcgcgcgt	cacagccccg	cggccgcgcgt	gtcccgcctac	aaccgcatgg	cccgcgctgg	48420
cgccgacgag	gtaactcccc	acttgtgcac	ctacggcatt	ctcatcggtt	gctgctgccg	48480
cgcgggcccgc	ttggacctcg	gtttcgcggc	cttgggcaat	gtcattaaga	agggatttag	48540
agtggaagcc	atcaccttca	ctcctctgct	caagggcctc	tgtgccgaca	agaggacgag	48600
cgacgcaatg	gacatagtgc	tccgcagaat	gaccgagctc	ggttgcatat	caaagtcttt	48660
ctcctacaat	aatcttctca	acgggctgtg	tgatgagaac	agaagccaag	aagctctcga	48720
gttgctgcac	atgatggctg	atgatcgagg	aggaggtagc	ccacctgatg	tgggtgctga	48780
taccactgtc	atcaatggct	tcttcaaaga	gggggattca	gacaaagctt	acagtacata	48840

ccatgaaatg	ctggaccggg	ggattttacc	tgatgttgtg	acctacagct	ctattattgc	48900
tgcgttatgc	aagggtcaag	ctatggacaa	gccatggagg	tacttaccac	gatggttaag	48960
aatgggtgtca	tgccctgattg	catgacatat	aatagttatt	tcttgaaatg	ttggatcgag	49020
gcatttgtct	ggacactatt	ttctttaatt	caataattga	cagtcattgc	aaagaaggga	49080
gggttataga	atctgaaaaa	ctctttgacc	tgatggtagc	tattgggtgtg	aagcctgata	49140
tcattacata	cagtacactc	atcgatggat	attgcttggc	aggtaagatg	gatgaagcaa	49200
tgaagttact	ttctggcatg	gtctcagttg	ggttgaaacc	taatactgtt	acttatagca	49260
ctttgattaa	tggctactgc	aaaattagta	ggatggaaga	cgcgtagttt	ctttttaagg	49320
agatggagag	cagtgggtgtt	agtcctgata	ttattacgta	taacataatt	ctgcaagggt	49380
tatttcaaac	cagaagaact	gctgctgcaa	aagaactcta	tgtcaggatt	accgaaagtg	49440
gaacgcagat	tgaacttagc	acatacaaca	taatccttca	tggactttgc	aaaaacaaac	49500
tcactgatga	tgcacttcag	atgtttcaga	acctatgttt	gatggatttg	aagcttgagg	49560
ctaggacttt	caacattatg	attgatgcat	tgcttaaaagt	tggcagaaat	gatgaagcca	49620
aggatttgtt	tgttgctttc	tcgctaacg	gttttagtgcc	gaattattgg	acgtacaggt	49680
tgatggctga	aaatattata	ggacaggggt	tgctagaaga	attggatcaa	ctctttcttt	49740
caatggagga	caatggctgt	actgttgact	ctggcatgct	aaatttcatt	gttaggggaa	49800
tgttgacagag	aggtagagata	accagggtct	gcacttacct	ttccatgatt	gatgagaagc	49860
actttccct	cgaagcatcc	actgcttcc	tgcttataga	tcttttgtct	gggggaaaa	49920
atcaagaata	ttatagggtt	ctccctgaaa	aatacaagtc	ctttatagaa	tctttgagct	49980
gctgaagcat	tttgagctt	tgaattctctg	tgttggaatt	cttttctcct	acagtcctat	50040
tagaggagg	atcttctctg	tatgtgtaaa	tagcgaggta	tgtatgccac	ctctccgaat	50100
tatttttact	gtggttccta	gactgtaaac	aagcaattat	gttatgctgt	tgatgccaga	50160
aaaaacataa	aagtttgtcg	ttatctctac	taacggatca	taaagggtt	tgtgactgga	50220
gtttcaaact	taatgtgtct	aggcagtaat	tttgacatta	gatccaaaac	aatttatagg	50280
gtttcattaa	atttcatcta	tgtgtactgt	ttagggtgtg	aatagtttga	cttggttttt	50340
aactgaacaa	aagatatgtc	tgaagctttg	ttctttacca	aatgcagtac	tgatcatcac	50400
aatatatttt	ttatggaaca	agattggatt	gtatagaatg	gtttccgata	tgattatcct	50460
atctcaacgt	attattatgc	acatgtacta	atcatgaaat	atctgatgga	atgatgtttc	50520
tattttacctg	tgtgaggcag	caaggagtga	gatggataac	accacatact	ccctctatcc	50580
cagaatataa	gaagtttttag	agttggacac	gattattaag	aaagtaggta	gaagtgaagta	50640
gtggagggtt	gtgattgcat	gagtagtgga	ggtaggtggg	aaaagtgaat	ggtggagggt	50700
tgtgatttgt	tgggaagaga	atgttggtag	agaagttgtt	atattttggg	gagtacatta	50760
ttattctaga	acaatactgt	tgtgctcaag	aagcgttcca	aagatgtttc	acaacctgtg	50820
ctcgatgggt	tttgagctta	atcctgggac	attcagtatc	atgatctgtc	tcattcttaa	50880
acatggaata	aaggatgaca	gcatgatttc	tttgtctcta	taatcttttg	gctaccaca	50940
gataatagct	gtaaatctat	actactttaa	aaggagtagt	ggtgggtgtg	agtggtgaat	51000
ctgccaccac	cccaccacca	actctcaaaa	ttctgacatg	tgggatacact	gtcaatccct	51060
tctccaagac	atgtgggata	actgtcaatc	ccttctccaa	accaattgta	tgatagaaca	51120
gtggaaatca	cggacagacc	atggagctct	caaccataat	catccttgcg	agttaataac	51180
aaatggagcg	taaacttggc	aagcaaaaaa	ctcaaatata	ttctaaaatt	aagctctagg	51240
attcaaaaata	gatttcctct	ctgcattgtg	ctgttatgat	ttttaattcc	gtaacaacgc	51300
aaatgcattt	tgctagtctt	ataaagaagg	gttaatgcaa	atattctgat	taaatgattg	51360
tatctatgaa	gtttgaatgc	tagtggaaagc	tcctttgacc	atgttttgtt	gtgagagcat	51420
ttaagagagt	gaagagaatg	cttcttttgt	gctgttctgg	tatggaagga	tccacagata	51480
aaattcagggt	tctactgctt	ctctgcttgt	aattttcatg	aagctgcagt	gaataccttg	51540
ttgaccactt	gatctgttgc	tttgaaggag	aatatagtag	tggccaagggt	tggtagcgggt	51600
gatggtggca	tgtgatcccc	cagatcttca	gtgaccacga	gaggagggga	cggcgcgtgg	51660
tgagctacaa	ggcatactca	gtggaggggca	agatcaaggc	ctcccgtccg	taggggactc	51720
cgctgcatca	aggccaactg	ctccgaactg	atcaatttct	ggtacggatc	acttctcctt	51780
tccttttttt	tttcaacctta	agcactctct	tgattcttctg	ctgctacctc	ccttaatttc	51840
tttcaatata	ttgtggcact	tgatcatggc	ggagaccac	cttccagtgt	gaatggattt	51900
tgtcaaagaa	ctaaatttat	tccattagct	tattttctga	ttacatggaa	gacattcttt	51960
tctggaataa	atacagaact	aaatcctgtt	tcctgaataa	aagttgttag	tgtgtggcat	52020
ggtgcattat	cgcgcttcta	aattttataa	aacctgttca	ttcaatttga	acctgcatcc	52080
aatccaatat	tttaggtgca	gacaggtgct	tgcggtcagg	ttaaagaagt	tggcaaaaa	52140
gcttctgaag	aaaggttaat	tgttgtttca	tctcaggagg	taatatgcag	atgattattc	52200
caattggcat	tgccttgcca	tttttatcac	gagtcctttac	aattttatat	cctcctacat	52260

```

attctttcca gattccagat gatccagtgt ctccaacaat tgaggcgctt attttgctcc 52320
atagtaaagc aagtacactt gctgagaacc accagttgac aacacggctt gttgtaccat 52380
caaacaaagt tggttgtatt cttggggaag gtggaaagggt aattactgaa atgagaagac 52440
ggactggggc tgaatccga gtctactcaa aagcagataa acctaagtac ctgtcttttg 52500
atgaggagct tgtgcaggta atttatttgg ccatacctac accagagatc catatattac 52560
ttttataact gcagttttta cttgttaaca ttctattgtg cttttacatt tgttccaagc 52620
tttcagggtg ctgggcttcc agctattgaa agaggagccc tgacagagat tgcttcgagg 52680
ctttgaacta ggacactcag agatggaagt tcttccaata atccgacacc ttttgcccct 52740
gttgatggtc ctctgttga tatcttgctt aacaaggaat tcatgctata tggacgatct 52800
gctaatagtc ccccatatgg agggcctgct aatgatccac catatggaag acctgccatt 52860
gatccaccat atggaagacc aatatccaca atatggaaga cctgccaatg atccaccata 52920
tagaagacct gtcaatgata catcatattg agggttggac aatgatgggc ctctgatca 52980
ggccccgtcc tgaggggggt cgaatggggc gatcgctccg ggcccccgat tcccagggcc 53040
cccacctatc tgtgcaacga gtagtagcga tcttccagcg cgcaacgtga ggcgatgttt 53100
ctccgtgatt tcgccggcct gcaactgcga gatcgcgagt ataacgatca gccgatcgat 53160
ctcatctgcc gactgccatg ctgatgccac acgcaagcgc agcatatcag ccttatcttg 53220
gttgatcggc atgctggacg agcacatctg ttgtcgcatc aactgctgac tgctatatat 53280
gtgctggtgc tgaatcgatc gattgtcgtc gcggaagtga agaacaacca cggcactgct 53340
gocctgtggg ctctagccgc catcagtaag tacgctatac tgcctatcta gatctagatc 53400
gagattacat agtggaaatta tctgtttata acaaaattac aaggatatcaa ttgataattt 53460
aaggttataa cgtacaaac ttcagtgatt tgctgggttc acattgggta gatttggttc 53520
aactaatttg gtacttctgt agccttgtaa ttacgaatc tagtattaat attttcttaa 53580
gtattagcct gttccttgat attatgctgt tgagaaagta tgcaatagat aacaaaaaca 53640
agtaggtgtg ttgaggatgc tcaagagtaa tacagccact tcaataattc tgatattatc 53700
aggacatcat caataattct gcgcctacaa atcttcaaag aaaattttaa tataatgcgt 53760
atgatttttt aaatacgaat attgattgct atttaaagat atttatatta tatggtaatt 53820
attatttgaa ggtttataat aaaggcctcc gtttttagtt tcacgctggg ccttcagaat 53880
ctcaggaccg gccctgctca tgatc 53905

```

```

<210> 29
<211> 24
<212> DNA
<213> Artificial Sequence

```

```

<220>
<223> Synthetic oligonucleotide primer for amplification

```

```

<400> 29
atcaggagcc ttcaaattgg gaac 24

```

```

<210> 30
<211> 24
<212> DNA
<213> Artificial Sequence

```

```

<220>
<223> Synthetic oligonucleotide primer for amplification

```

```

<400> 30
ctcgcaaatt gcttaatttt gacc 24

```

```

<210> 31
<211> 24
<212> DNA
<213> Artificial Sequence

```

```

<220>

```

<223> Synthetic oligonucleotide primer for amplification

<400> 31
tgaaggagtt atgggtgcgt gacg 24

<210> 32
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide primer for amplification

<400> 32
ttgccgagca cacttgccat gtgc 24

<210> 33
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide primer for amplification

<400> 33
gcgacgcaat ggacatagtg ctcc 24

<210> 34
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide primer for amplification

<400> 34
ttacctgcca agcaatatcc atcg 24

<210> 35
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide primer for amplification

<400> 35
aaggcatact cagtggaggg caag 24

<210> 36
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide primer for amplification

<400> 36
 ttaacctgac cgcaagcacc tgtc 24

 <210> 37
 <211> 24
 -----<212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification

 <400> 37
 tggatggact atgtgggggc agtc 24

 <210> 38
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification

 <400> 38
 agtggagtg gagagagtag ggag 24

 <210> 39
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification

 <400> 39
 ccctccaaca cataaatggt tgag 24

 <210> 40
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification

 <400> 40
 tttctgccag gaaactgtta gatg 24

 <210> 41
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification

 <400> 41
 gcgatcttat acgcatacta tgcg 24

<210> 42
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification

 <400> 42
 aaagtctttg ttccttcacc aagg 24

 <210> 43
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification

 <400> 43
 gaggatttat caaaacagga tggacg 26

 <210> 44
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification

 <400> 44
 tgggcggcag cagtggagga taga 24

 <210> 45
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification

 <400> 45
 aagaaggag ggttatagaa tctg 24

 <210> 46
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification

 <400> 46
 atatcaggac taacaccact gctc 24

 <210> 47

<211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification

 <400> 47
 acgagtagta gcgatcttcc agcg 24

 <210> 48
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification

 <400> 48
 cagcgtgaaa ctaaaaacgg aggc 24

 <210> 49
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification

 <400> 49
 atcccacatc atcataatcc gacc 24

 <210> 50
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification

 <400> 50
 agcttctccc ttggatacgg tggcg 25

 <210> 51
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification

 <400> 51
 attgttggt tagttgcggc tgag 24

 <210> 52
 <211> 24
 <212> DNA

<213> Artificial Sequence
 <220>
 <223> Synthetic oligonucleotide primer for amplification
 <400> 52
 gcccaaactc aaaaggagag aacc 24
 <210> 53
 <211> 24
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic oligonucleotide primer for amplification
 <400> 53
 cctcaagtct cccctaaagc cact 24
 <210> 54
 <211> 24
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic oligonucleotide primer for amplification
 <400> 54
 gctctactgc tgataaaccg tgag 24
 <210> 55
 <211> 24
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic oligonucleotide primer for amplification
 <400> 55
 tggatggact atgtgggggc agtc 24
 <210> 56
 <211> 24
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic oligonucleotide primer for amplification
 <400> 56
 agtgaagtg gagagagtag ggag 24
 <210> 57
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide primer for amplification

 <400> 57
 tacgacgccca ttctactcca ttgc 24

 <210> 58
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification

 <400> 58
 catttctcta tgggcgttgc tctg 24

 <210> 59
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification

 <400> 59
 acctgtaggt atggcacctt caacac 26

 <210> 60
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification

 <400> 60
 ccaaggaacg aagttcaaat gtatgg 26

 <210> 61
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification

 <400> 61
 tgatgtgttt gggcatccct ttcg 24

 <210> 62
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification

<400> 62
 gagatagggg acgacagaca cgac 24

 <210> 63
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification

 <400> 63
 tcctatggct gtttagaaac tgcaca 26

 <210> 64
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification

 <400> 64
 caagttcaaa cataactggc gttg 24

 <210> 65
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification

 <400> 65
 cactgtcctg taagtgtgct gtgc 24

 <210> 66
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification

 <400> 66
 caagcgtgtg ataaaatgtg acgc 24

 <210> 67
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide primer for amplification

 <400> 67

tgccctactgc cattactatg tgac 24

<210> 68
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide primer for amplification

<400> 68
acatactacc gtaaatgggc tctg 24

<210> 69
<211> 4820
<212> DNA
<213> rice

<400> 69
atcgatcgcg atctccctgc cccgacgtcg cgggccgacg tctcattctc tccacgccct 60
gctcgtcgcc gatctcctac accatccctg ccatctcctc cttccctcc cctctatcct 120
ccactggtgc cgccacctc tccgtataag acaaactgcg ttgcggcgtt ggtttccgcc 180
ggcgtgctg ctgcacctgt cagctagggc gggcatggcg cgccgcgccg cttcccgccg 240
tggtggcgcc cttcgctcgg acggctcgat ccaagggcga ggaggccgcg cggggggcag 300
tggcgccgag gacgcacgcc acgtgttcga cgaattgctc cgccgtggca ggggcgcctc 360
gatctacggc ttgaaccgcg ccctcgccga cgtcgcgcg gacagccccg cggccgcccgt 420
gtcccgcctac aaccgcatgg cccgagccgg cgccgacgag gtaactcccg acttgtgcac 480
ctacggcatt ctcatcggtt gctgctgccg cgccggccgc ttggacctcg gtttcgcggc 540
cttgggcaat gtcattaaga agggatttag agtggacgcc atcgccctca ctccctctgct 600
caagggcctc tgtgccgaca agaggacgag cgacgcaatg gacatagtc tccgcagaat 660
gaccgagctc ggctgcatac caaatgtctt ctccctacaat attcttctca aggggctgtg 720
tgatgagaac agaagccaag aagctctcga gctgctgcac atgatggctg atgatcgagg 780
aggaggtagc ccacctgatg tgggtgcgta taccactgtc atcaatggct tcttcaaaga 840
gggggattca gacaaagctt acagtacata ccatgaaatg ctggaccggg ggattttacc 900
tgatgttggtg acctacaact ctattattgc tgcgttatgc aaggctcaag ctatggacaa 960
agccatggag gtacttaaca ccatgggttaa gaatgggtgc atgcctgatt gcatgacata 1020
taatagttat ttgcatggat attgctcttc agggcgaccg aaagaggcta ttggatttct 1080
caaaaagatg cgcagtgatg gtgtcgaacc agatgttgtt acttatagct tgctcatgga 1140
ttatctttgc aagaacggaa gatgcatgga agctagaaag attttcgatt ctatgaccaa 1200
gaggggccta aagcctgaaa ttactaccta tggtagcctg cttcaggggt atgctaccaa 1260
aggagccctt gttgagatgc atggtctctt ggatttgatg gtacgaaacg gtatccaccc 1320
tgatcattat gttttcagca ttctaatatg tgcatacgct aaacaaggga aagtagatca 1380
ggcaatgctt gtgttcagca aatgaggca gcaaggattg aatccgaatg cagtgcagta 1440
tggagcagtt ataggcatac ttgcaagtc aggcagagta gaagatgcta tgctttattt 1500
tgagcagatg atcgatgaag gactaagccc tggcaacatt gtttataact ccctaattca 1560
tggtttgtgc acctgtaaca aatgggagag ggctgaagag ttaattcttg aaatgttgga 1620
tcgaggcatc tgtctgaaca ctattttctt taattcaata attgacagtc attgcaaaga 1680
agggagggtt atagaatctg aaaaactctt tgagctgatg gtacgtattg gtgtgaagcc 1740
caatgtcatt acctacaata ctcttatcaa tggatattgc ttggcaggta agatggatga 1800
agcaatgaag ttactttctg gcatggctct agttgggttg aaacctataa ctgttactta 1860
tagcactttg attaatggct actgcaaaat tagtaggatg gaagacgcgt tagttctttt 1920
taaggagatg gagagcagtg gtgttagtcc tgatattatt acgtataaca taattctgca 1980
aggtttattt caaaccagaa gaactgctgc tgcaaaagaa ctctatgtta ggattaccga 2040
aagtggaaacg cagattgaac ttagcacata caacataatc cttcatggac tttgcaaaa 2100
caaactcact gatgatgcac ttcagatgtt tcagaacctc tgtttgatgg atttgaagct 2160
tgaggctagg actttcaaca ttatgattga tgcattgctt aaagttggca gaaatgatga 2220
agccaaggat ttgtttgttg ctttctcgtc taacggttta gtgccgaatt attggacgta 2280

caggttgatg	gctgaaaata	ttataggaca	ggggttgcta	gaagaattgg	atcaactctt	2340
tctttcaatg	gaggacaatg	gctgtactgt	tgactctggc	atgctaaatt	tcattgttag	2400
ggaactgttg	cagagaggtg	agataaccag	ggctggcact	tacctttcca	tgattgatga	2460
gaagcacttt	tccctcgaag	catccactgc	ttccttggtt	atagatcttt	tgtctggggg	2520
aaaatatcaa	gaatattata	ggtttctccc	tgaaaaatac	aagtccttta	tagaatcttt	2580
gagctgctga	agcattttgc	agctttgaaa	ttctgtgttg	gaattctttt	ctcctacagt	2640
cctattagag	gagggatctt	ctctgtatgt	gtaaatagcg	agtttgaatg	ctagtggaa	2700
ctcctttgac	catgttttgt	tgtgcgagca	tttaagagag	tgaagagaat	gcttcttttg	2760
tgtctgttctg	gtatggaagg	atccacagat	aaaattcagt	agtggccaag	gttgggtgacg	2820
gtgatgggtg	catgtgatcc	cccagatctt	cagtgaccca	gagaggaggg	gacggcgct	2880
ggtagagctac	aaggcatact	cagtggaggg	caagatcaag	gcctcccgtc	cgtaggggac	2940
tccgctgcat	caaggccaac	tgctccgaac	tgatcaattt	ctgggtgcaga	caggtgcttg	3000
cggtcagggt	aaagaagttg	gcaaaaatgc	ttctgaagaa	aggttaattg	ttgtttcatc	3060
tcaggagatt	ccagatgatc	cagtgtctcc	aacaattgag	gcgcttattt	tgctccatag	3120
taaagtaagt	acacttgctg	agaaccacca	gttgacaaca	cggcttggtg	taccatcaaa	3180
caaagttggt	tgtattcttg	gggaaggtgg	aaaggttaatt	actgaaatga	gaagacggac	3240
tggggctgaa	atccgagctt	actcaaaagc	agataaacct	aagtacctgt	cttttgatga	3300
ggagcttggtg	caggttgctg	ggcttccagc	tattgaaaga	ggagccctga	cagagattgc	3360
ttcagggtt	tgaactagga	cactcagaga	tggaaattct	tccaataatc	cgacaccttt	3420
tgccctgtgt	gatggctctc	ctgttgatat	cttgccctaac	aaggaattca	tgctatatgg	3480
acgatctgct	aatagtcccc	catatggagg	gcctgctaatt	gatccaccat	atggaagacc	3540
tgccattgat	ccaccatatg	gaagaccaat	atccacaata	tggaagacct	gccaatgatc	3600
caccatatag	aagacctgtc	aatgatacat	catattgagg	gttgaacaat	gatgggcttc	3660
gtgatcaggc	ccggtcctga	ggggggctga	atggggcgat	cgctccgggc	cccccgattc	3720
ccaggggccc	cacctatctg	tgcaacgagt	agtagcgatc	ttccagcgcg	caacgtgagg	3780
cgatgtttct	ccgtgatattc	gccggcctgc	aactgcgaga	tcgagagtat	aacgatcagc	3840
cgatcgatct	catctgccga	ctgccatgct	gatgccacac	gcaagcgag	catatcagcc	3900
ttatcttggt	tgatcggcat	gctggacgag	cacatctggt	gtcgcatcaa	ctgctgactg	3960
ctatatatgt	gctgggtgctg	aatcgatcga	ttgtcgtcac	ggaagtgaag	aacaaccacg	4020
gcaactgctgc	ctgctgggct	ctagccgcca	tcagctgcgg	agctgatcca	tggacgtgag	4080
gattaccgaa	gactgtcagg	tctcactggg	tatccagggtg	gctctgtcga	attgtggatt	4140
ccaaatagtt	aactggagtc	tgtcattggt	gttgggtggtg	tcaatctagc	tgagatccgt	4200
ctggtatagc	gtaagagaaa	catcatgcac	tatccccagt	cataaccatg	ccccaatggc	4260
caccaatagt	tttctctgtg	aaaatctccc	cttgatccca	gatctctggt	gcgagagtga	4320
agttgcacga	agcccatcct	ggttcttccg	agtccattgt	ggagatccag	ggcattccgg	4380
atcaagtga	agccgcacag	agccttctgc	aaggcttcat	cggcgcaagc	agcaacagca	4440
ggcaggcgcc	ccagtcctct	cgcattggcc	attattttta	gtaagctgga	ggacattcgc	4500
aacagggggg	tcagtgggtca	ctgcaaagct	gagtttggtt	ttcagttcaa	ctgcagaaaa	4560
ttgcagatcg	gttgccgtag	ttgctagaac	ggtacatagt	tgccacctaa	ctgtagcgag	4620
tggcataact	tattgtgtgt	tactgcccac	tggtgtctct	ccttgtgttc	atggattcag	4680
acttgtgatt	gtagtatattc	tggatcagac	tggagtaaaa	gaaaaaaaaa	aaggaagaca	4740
tgggtttaac	agtaagctca	aaacgttgac	agtagtaaaa	taaaaggggt	ttgttcactt	4800
taaaaaaaaa	aaaaaaaaaa					4820

<210> 70
 <211> 4821
 <212> DNA
 <213> rice

<400> 70						
cgatcgcgat	ctccctgccc	cgacgtcgcc	ggccgatctc	tcattctctc	cacgccctgc	60
tcgtcgccga	tctcctacac	catccctgcc	atctcctcct	tccctcccc	tctatcctcc	120
actggtgccc	cccacctctc	cgtataagac	aaactgcgtt	gcggcggttg	tttccgcccg	180
cgctgctgct	gcacctgtca	gctagggcgg	gcattggcgg	ccgcgcgcgt	tcccgcgcgt	240
ttggcgccct	tcgctcgagc	ggctcgatcc	aaggcgaggg	aggccgcgcg	gggggcagtg	300
gcgcccagga	cgcacgccac	gtgttcgacg	aattgctccg	ccgtggcagg	ggcgccctga	360
tctacggctt	gaaccgcgcc	ctcgccgacg	tcgcgcgtga	cagccccgcg	gccgcccgtg	420

cccgtacaa	ccgcatggcc	cgagccggcg	ccgacgaggt	aactcccgac	ttgtgcacct	480
acggcattct	catcggttgc	tgctgccgcg	cgggccgctt	ggacctcggt	ttcgcggcct	540
tgggcaatgt	cattaagaag	ggatttagag	tggacgccat	cgcttccact	cctctgctca	600
agggcctctg	tgccgacaag	aggacgagcg	acgcaatgga	catagtgtct	cgcagaatga	660
ccgagctcgg	ctgcatacca	aatgtcttct	cctacaatat	tcttctcaag	gggctgtgtg	720
atgagaacag	aagccaagaa	gctctcgagc	tgctgcacat	gatggctgat	gatcgaggag	780
gaggtagccc	acctgatgtg	gtgtcgtata	ccactgtcat	caatggcttc	ttcaaagagg	840
gggattcaga	caaagcttac	agtacatacc	atgaaatgct	ggaccggggg	attttacctg	900
atgtttgtgac	ctacaactct	attattgctg	cgttatgcaa	ggctcaagct	atggacaaaag	960
ccatggagggt	acttaacacc	atgggttaaga	atggtgtcat	gcctgattgc	atgacatata	1020
atagtattct	gcatggatat	tgctcttcag	ggcagccgaa	agaggctatt	ggattttctca	1080
aaaagatgcg	cagtgatggg	gtcgaaccag	atgttggttac	ttatagcttg	ctcatggatt	1140
atctttgcaa	gaacggaaga	tgcattggaag	ctagaaagat	tttcgattct	atgaccaaga	1200
ggggcctaaa	gcctgaaatt	actacctatg	gtaccctgct	tcaggggtat	gctaccaaag	1260
gagcccttgt	tgagatgcac	ggtctctttg	atttgatggg	acgaaacggt	atccaccctg	1320
atcattatgt	tttcagcatt	ctaataatgtg	catacgctaa	acaagggaaa	gtagatcagg	1380
caatgcttgt	gttcagcaaa	atgaggcagc	aaggattgaa	tccgaatgca	gtgacgtatg	1440
gagcagttat	aggcatactt	tgcaagtcag	gcagagttaga	agatgctatg	ctttatttttg	1500
agcagatgat	cgatgaagga	ctaagccctg	gcaacattgt	ttataactcc	ctaattcatg	1560
gtttgtgcac	ctgtaacaaa	tgggagaggg	ctgaagagtt	aattcttgaa	atgttggatc	1620
gaggcatctg	tctgaacact	attttcttta	attcaataat	tgacagtcac	tgcaaagaag	1680
ggagggttat	agaatctgaa	aaactctttg	agctgatggg	acgtattggg	gtgaagccca	1740
atgtcattac	ctacaatact	cttatcaatg	gatattgctt	ggcaggttag	atggatgaag	1800
caatgaagtt	actttctggc	atgggtctcag	ttgggttgaa	acctaatact	gttacttata	1860
gcactttgat	taatggctac	tgcaaaaatta	gtaggatgga	agacgcgtta	gttcttttta	1920
aggagatgga	gagcagtggt	gttagtcctg	atattattac	gtataacata	attctgcaag	1980
gtttattttca	aaccagaaga	actgctgctg	caaaagaact	ctatgttagg	attaccgaaa	2040
gtggaacgca	gattgaactt	agcacatata	acataatcct	tcatggactt	tgcaaaaaca	2100
aactcactga	tgatgcactt	cagatgtttc	agaacctatg	tttgatggat	ttgaagcttg	2160
aggctaggac	tttcaacatt	atgattgatg	cattgcttaa	agttggcaga	aatgatgaag	2220
ccaaggattt	gtttgtttgt	ttctcgtcta	acggttttag	gccgaattat	tggacgtaca	2280
ggttgatggc	tgaaaatatt	ataggacagg	ggttgctaga	agaattggat	caactctttc	2340
tttcaatgga	ggacaatggc	tgtactgttg	actctggcat	gctaaatttc	attgttaggg	2400
aactgttgca	gagaggtgag	ataaccaggg	ctggcactta	cctttccatg	attgatgaga	2460
agcacttttc	cctcgaagca	tccactgctt	ccttgtttat	agatcttttg	tctgggggaa	2520
aatatcaaga	atattatagg	tttctccctg	aaaaatacaa	gtcctttata	gaatctttga	2580
gctgctgaag	catttttgag	ctttgaaatt	ctgtgttgga	attcttttct	cctacagtcc	2640
tattagagga	gggatcttct	ctgtatgtgt	aaatagcgag	tttgaatgct	agtgggaagct	2700
cctttgacca	tgttttgttg	tgcgagcatt	taagagagtg	aagagaatgc	ttctttgggtg	2760
ctgttctggg	atggaaggat	ccacagataa	aattcagtag	tggccaagggt	tgggtgacggg	2820
gatggtggca	tgtgatcccc	cagatcttca	gtgaccocaga	gaggagggga	cggcgcgtgg	2880
tgagctacaa	ggcatactca	gtggagggca	agatcaaggc	ctcccgtccg	taggggactc	2940
cgctgcatca	aggccaactg	ctccgaactg	atcaatttct	ggtgcagaca	ggtgcttgcg	3000
gtcagggttaa	agaagttggc	aaaaatgctt	ctgaagaaag	gttaattgtt	gtttcatctc	3060
aggagattcc	agatgatcca	gtgtctccaa	caattgaggc	gcttattttg	ctccatagta	3120
aagtaagtac	acttgctgag	aaccaccagt	tgacaacacg	gcttgttgta	ccatcaaaca	3180
aagttgggtg	tattcttggg	gaagggtggaa	aggtaattac	tgaaatgaga	agacggactg	3240
gggctgaaat	ccgagtctac	tcaaaagcag	ataaacctaa	gtacctgtct	tttgatgagg	3300
agcttgtgca	ggttgctggg	cttccagcta	ttgaaagagg	agccctgaca	gagattgctt	3360
cgaggctttg	aactaggaca	ctcagagatg	gaagttcttc	caataatccg	acaccttttg	3420
cccctgttga	tggctctcct	gttgatatct	tgcctaacaa	ggaattcatg	ctatatggac	3480
gatctgctaa	tagtccccca	tatggagggc	ctgctaataga	tccaccatat	ggaagacctg	3540
ccattgatcc	accatatgga	agaccaatat	ccacaatatg	gaagacctgc	caatgatcca	3600
ccatatagaa	gacctgtcaa	tgatacatca	tattggagggt	tgaacaatga	tgggcctcgt	3660
gatcaggccc	ggctctgagg	ggggctogaat	ggggcgatcg	ctccggggcc	cccgatccc	3720
agggccccca	cctatctgtg	caacgagtag	tagcgatctt	ccagcgcgca	acgtgagccg	3780
atgtttctcc	gtgatttcgc	cggcctgcaa	ctgcgagatc	gcgagtataa	cgatcagccg	3840

atcgatctca	tctgccgact	gccatgctga	tgccacacgc	aagcgcagca	tatcagcctt	3900
atcttggttg	atcggcatgc	tggacgagca	catctgttgt	cgcatcaact	gctgactgct	3960
atataatgtgc	tgggtgctgaa	tcgatcgatt	gtcgtcacgg	aagtgaagaa	caaccacggc	4020
actgctgcct	gctgggctct	agccgccatc	agctgcggag	ctgatccatg	gacgtgagga	4080
ttaccgaaga	ctgtcaggtc	tactgggtta	tccagggtggc	tctgtcgaat	tgtggattcc	4140
aaatagttaa	ctggagttctg	tcatgtgtgt	tgggtggtgtc	aatctagctg	agatccgtct	4200
ggtatagcgt	aagagaaaca	tcatgcacta	tcccagtgca	taaccatgcc	ccaatggcca	4260
ccaatagttt	tcctcgtgaa	aatctcccct	tgatcccaga	tctctggtgc	gagagtgaag	4320
ttgcacgaag	cccatcctgg	ttcttccgag	tccattgtgg	agatccaggg	cattccggat	4380
caagtgaag	ccgcacagag	ccttctgcaa	ggcttcatcg	gcgcaagcag	caacagcagg	4440
caggcgcccc	agtcctctcg	catggcccat	tatttttagt	aagctggagg	acattcgcaa	4500
caggggggtc	agtggctact	gcaaagctga	gtttgttctt	cagttcaact	gcagaaaaatt	4560
gcagatcggg	tgccgtagtt	gctagaacgg	tacatagttg	ccacctaaact	gtagcgagtg	4620
gcataactta	ttgtgtgtta	ctgcccgaatg	ttgtctctcc	ttgtgttcat	ggattcagac	4680
ttgtgattgt	agtatttctg	gatcagactg	gagtaaaaga	aaaaaaaaaa	ggaagacatg	4740
ggtttaacag	taagctcaaa	acgttgacag	tagtaaaata	aaaggggttt	gttcacttta	4800
aaaaaaaaaa	aaaaaaaaaa	a				4821

<210> 71
 <211> 5005
 <212> DNA
 <213> rice

<400> 71						
gagatcgatc	gcgatctccc	tgccccgacg	tgcgcggccg	atctctcatt	ctctccacgc	60
cctgctcgtc	gccgatctcc	tacaccatcc	ctgccatctc	ctccttcccc	tcccctctat	120
cctccactgg	tgccgcccac	ctctccgtat	aagacaaact	gcgttgccggc	gttggtttcc	180
gccggcgctg	ctgctgcacc	tgtcagctag	ggcggggcatg	gcgcgcgcgcg	ccgcttcccgc	240
cgctgttggc	gcccttcgct	cggacggctc	gatccaaggg	cgaggaggcc	gcgcgggggg	300
cagtggcgcc	gaggacgcac	gccacgtgtt	cgacgaattg	ctccgccgtg	gcagggggcg	360
ctcgatctac	ggcttgaacc	gcgccctcgc	cgacgtcgcg	cgtgacagcc	ccgcggccgc	420
cgtgtcccgc	tacaaccgca	tggcccagagc	cggcgccgac	gaggtaactc	ccgactttgtg	480
cacctaaggc	attctcatcg	gttgcgtgctg	ccgcgcgggc	cgcttggacc	tcggtttcgc	540
ggccttgggc	aatgtcatta	agaagggatt	tagagtggac	gccatcgctt	tcactcctct	600
gctcaagggc	ctctgtgccg	acaagaggac	gagcgacgca	atggacatag	tgctccgcag	660
aatgaccgag	ctcggctgca	taccaaaatgt	cttctcctac	aatattcttc	tcaaggggct	720
gtgtgatgag	aacagaagcc	aagaagctct	cgagctgctg	cacatgatgg	ctgatgatcg	780
aggaggaggt	agccacactg	atgtgggtgtc	gtataccact	gtcatcaatg	gcttcttcaa	840
agagggggat	tcagacaaag	cttacagtac	ataccatgaa	atgctggacc	gggggatttt	900
acctgatgtt	gtgacctaca	actctattat	tgtctcggtta	tgcaaggctc	aagctatgga	960
caaagccatg	gaggtaactta	acaccatggt	taagaatggt	gtcatgcctg	attgcatgac	1020
atataatagt	attctgcatg	gatattgctc	ttcaggggcag	ccgaaagagg	ctattggatt	1080
tctcaaaaag	atgcgcagtg	atgggtgtcga	accagatgtt	gttacttata	gcttgcctcat	1140
ggattatctt	tgcaagaacg	gaagatgcat	ggaagctaga	aagattttcg	attctatgac	1200
caagaggggc	ctaaagcctg	aaattactac	ctatggtacc	ctgcttcagg	ggtagtctac	1260
caaaggagcc	cttgttgaga	tgcatgggtct	cttggatttg	atggtacgaa	acggtatcca	1320
ccctgatcat	tatgttttca	gcattctaata	atgtgcatac	gctaaacaag	ggaagtaga	1380
tcaggcaatg	cttgtgttca	gcaaaatgag	gcagcaagga	ttgaatccga	atgcagtac	1440
gtatggagca	gttataggca	tactttgcaa	gtcaggcaga	gtagaagatg	ctatgcttta	1500
ttttgagcag	atgatcgatg	aaggactaag	ccctggcaac	attgtttata	actccctaata	1560
tcatggtttg	tgcacctgta	acaaatggga	gagggctgaa	gagttaattc	ttgaaatgtt	1620
ggatcgaggc	atctgtctga	acactatttt	ctttaattca	ataattgaca	gtcattgcaa	1680
agaagggagg	gttatagaat	ctgaaaaaact	ctttgagctg	atggtacgta	ttggtgtgaa	1740
gccaatgtc	attacctaca	atactcttat	caatggatat	tgcttggcag	gtaagatgga	1800
tgaagcaatg	aagttacttt	ctggcatggg	ctcagttggg	ttgaaacctta	atactgttac	1860
ttatagcaact	ttgattaatg	gctactgcaa	aattagtagg	atggaagacg	cgttagttct	1920
ttttaaggag	atggagagca	gtgggtgttag	tcctgatatt	attacgtata	acataattct	1980

gcaagggttta	tttcaaacca	gaagaactgc	tgctgcaaaa	gaactctatg	ttaggattac	2040
cgaagagtga	acgcagattg	aacttagcac	atacaacata	atccttcatg	gactttgcaa	2100
aaacaaactc	actgatgatg	cacttcagat	gtttcagaac	ctatgtttga	tggatttgaa	2160
gcttgaggct	aggactttca	acattatgat	tgatgcattg	cttaaagttg	gcagaaatga	2220
tgaagccaag	gatttgtttg	ttgctttctc	gtctaacggg	ttagtgccga	attattggac	2280
gtacaggttg	atggctgaaa	atattatagg	acaggggttg	ctagaagaat	tggatcaact	2340
ctttctttca	atggaggaca	atggctgtac	tgttgactct	ggcatgctaa	atttcattgt	2400
tagggaactg	ttgcagagag	gtgagataac	cagggctggc	acttaccttt	ccatgattga	2460
tgagaagcac	ttttccctcg	aagcatccac	tgcttccttg	tttatagatc	ttttgtctgg	2520
gggaaaatat	caagaatatt	ataggtttct	ccctgaaaaa	tacaagtcct	ttatagaatc	2580
tttgagctgc	tgaagcattt	tgacagcttg	aaattctgtg	ttggaattct	tttctcctac	2640
agtcctatta	gaggagggat	cttctctgta	tgtgtaaata	gcgagtttga	atgctagtgg	2700
aagtcctttt	gaccatgttt	tgttgctgca	gcatttaaga	gagtgaagag	aatgcttctt	2760
tgggtgctgtt	ctggtatgga	aggatccaca	gataaaattc	aggagaatat	agtagtggcc	2820
aaggttggtg	acggtgatgg	tggcatgtga	tccccagat	cttcagtga	ccagagagga	2880
ggggacggcg	cgtggtgagc	tacaaggcat	actcagtga	gggcaagatc	aaggcctccc	2940
gtccgtaggg	gactccgctg	catcaaggcc	aactgctccg	aactgatcaa	tttctggtgc	3000
agacaggtgc	ttgcggtcag	gttaaagaag	ttggcaaaaa	tgcttctgaa	gaaaggttaa	3060
ttgttggtttc	atctcaggag	attccagatg	atccagtgtc	tccaacaatt	gaggcgctta	3120
ttttgctcca	tagtaaagta	agtacacttg	ctgagaacca	ccagttgaca	acacggcttg	3180
ttgtaccatc	aaacaaagtt	ggttgatttc	ttggggaagg	tggaaaggta	attactgaaa	3240
tgagaagacg	gactggggct	gaaatccgag	tctactcaaa	agcagataaa	cctaagtacc	3300
tgtcttttga	tgaggagctt	gtgcaggttg	ctgggcttcc	agctattgaa	agaggagccc	3360
tgacagagat	tgcttcgagg	ctttgaacta	ggacactcag	agatggaagt	tcttccaata	3420
atccgacacc	ttttgcccct	gttgatggtc	ctcctgttga	tatcttgctt	aacaaggaat	3480
tcatgctata	tggacgatct	gctaatagtc	ccccatatgg	agggcctgct	aatgatccac	3540
catatggaag	acctgccatt	gatccaccat	atggaagacc	aatatccaca	atatggaaga	3600
cctgccaatg	atccaccata	tagaagacct	gtcaatgata	catcatattg	agggttgaa	3660
aatgatgggc	ctcgtgatca	ggccccggtc	tgaggggggt	cgaatggggc	gatcgctccg	3720
ggccccccga	ttcccagggc	ccccacctat	ctgtgcaacg	agtagtagcg	atcttccagc	3780
gcgcaacgtg	aggcgatgtt	tctccgtgat	ttcgccggcc	tgcaactgcg	agatcgcgag	3840
tataacgatc	agccgatcga	tctcatctgc	cgactgccat	gctgatgcca	cacgcaagcg	3900
cagcatatca	gccttatctt	ggttgatcgg	catgctggac	gagcacatct	gttgtcgcat	3960
caactgctga	ctgctatata	tgtgctgggt	ctgaatcgat	cgattgtcgt	cacggaagtg	4020
aagaacaacc	acggcactgc	tgccctgctg	gctctagccg	ccatcagctg	cggagctgat	4080
ccatggacgt	gaggattacc	gaagactgtc	aggtctcact	gggtatccag	gtggctctgt	4140
cgaattgtgg	attccaaata	gttaactgga	gtctgtcatt	ggtggtgggt	gtgtcaatct	4200
agctgagatc	cgtctggtat	agcgtaagag	aaacatcatg	cactatcccc	agtcataaacc	4260
atgccccaat	ggccaccaat	agttttcctc	gtgaaaatct	ccccttgatc	ccagatctct	4320
ggtgagagag	tgaagttgca	cgaagcccat	cctgggttctt	ccgagtcctt	tgtggagatc	4380
cagggcattc	cggatcaagt	gaaagccgca	cagagccttc	tgcaaggctt	catcggcgca	4440
agcagcaaca	gcaggcaggc	gccccagtc	tctcgcatgg	cccattatct	ttagtaagct	4500
ggaggacatt	cgcaacaggg	gggtcagtgg	tactgcaaaa	gctgagtttg	ttcttcagtt	4560
caactgcaga	aaattgcaga	tcggttgccg	tagttgctag	aacggtacat	agttgccacc	4620
taactgtagc	gagtggcata	acttattgtg	tgttactgcc	caatgttgct	tctccttggt	4680
ttcatggatt	cagacttggt	attgtagtat	ttctggatca	gactggagta	aaagaaaaaa	4740
aaaaaggaag	acatgggttt	aacagtaagc	tcaaaacgtt	gacagtagta	aaataaaagg	4800
ggtttggttca	ctttattttc	aatatcaacc	ttaccaacat	ttggcggttg	atcatttata	4860
ccacatcgct	tgtgcagctg	aatttggggc	tgtttaaaag	atgggtctct	ggattgctaa	4920
ttgcctcgcg	gcaagcgtgg	taccttgtag	aatataaata	taattataac	tattttaattt	4980
cataaaaaaa	aaaaaaaaaa	aaaaa				5005

<210> 72
 <211> 4978
 <212> DNA
 <213> rice

<400> 72

```
gcgatctccc tgccccgacg tgcgcggccg atctctcatt ctctccacgc cctgctcgtc 60
gccgatctcc tacaccatcc ctgccatctc ctccctcccc tccccctctat cctccactgg 120
tgccgcccac ctctccgtat aagacaaact gcgttgccgc gttggtttcc gccggcgctg 180
ctgctgcacc tgtcagctag ggcgggcatg gcgcgcgcgc ccgcttcccc cgctgttggc 240
gcccttcgct cggacggctc gatccaaggg cgaggaggcc gcgcgggggg cagtggcgcc 300
gaggacgcac gccacgtgtt cgacgaattg ctccgcctg gcaggggcgc ctcgatctac 360
ggcttgaacc gcgcctcgc cgacgtcgcg cgtgacagcc ccgcggccgc cgtgtcccgc 420
tacaaccgca tggcccgcgc cggcgccgac gaggttaact ccgacttgtg cacctacggc 480
attctcatcg gttgctgctg ccgcgcgggc cgcttggacc tcggtttcgc ggccttgggc 540
aatgtcatta agaagggatt tagagtggac gccatcgcct tcaactcctct gctcaagggc 600
ctctgtgccg acaagaggac gagcgacgca atggacatag tgctccgcag aatgaccgag 660
ctcggtgca taccaaagt ctctcctac aatattcttc tcaaggggct gtgtgatgag 720
aacagaagcc aagaagctct cgagctgctg cacatgatgg ctgatgatcg aggaggaggt 780
agcccacctg atgtggtgtc gtataccact gtcataatg gcttcttcaa agagggggat 840
tcagacaaag cttacagtac ataccatgaa atgctggacc gggggatttt acctgatgtt 900
gtgacctaca actctattat tgctgcgtta tgcaaggctc aagctatgga caaagccatg 960
gaggtactta acaccattgt taagaatggt gtcattgcctg attgcatgac atataatag 1020
attctgcatg gatattgctc ttcaaggcag ccgaaaggag ctattggatt tctcaaaaag 1080
atgcgcagtg atggtgtcga accagatggt gttacttata gcttgctcat ggattatctt 1140
tgcaagaacg gaagatgcat ggaagctaga aagattttcg attctatgac caagaggggc 1200
ctaaagcctg aaattactac ctatggtacc ctgcttcagg ggtatgctac caaaggagcc 1260
cttggtgaga tgcattgtct cttggatttg atggtacgaa acggtatcca ccctgatcat 1320
tatgttttca gcattcta atgtgcatac gctaaacaag ggaaagtaga tcaggcaatg 1380
cttggtgttca gcaaaatgag gcagcaagga ttgaatccga atgcagtgc gtatggagca 1440
gttataggca tactttgcaa gtcaggcaga gtagaagatg ctatgcttta ttttgagcag 1500
atgatcgatg aaggactaag ccctggcaac attgtttata actcccta atcatggttg 1560
tgcacctgta acaaatggga gagggctgaa gagttaattc ttgaaatgtt ggatcgaggc 1620
atctgtctga acactatttt ctttaattca ataattgaca gtcattgcaa agaagggagg 1680
gttatagaat ctgaaaaact ctttgagctg atggtacgta ttggtgtgaa gcccaatgtc 1740
attacctaca atactcttat caatggatat tgcttggcag gtaagatgga tgaagcaatg 1800
aagttacttt ctggcatggt ctgagttggg ttgaaacct aactgtttac ttatagcact 1860
ttgattaatg gctactgcaa aattagtagg atggaagacg cgtagtttct ttttaaggag 1920
atggagagca gtggtgttag tcctgatatt attacgtata acataattct gcaaggttta 1980
tttcaaacca gaagaactgc tgctgcaaaa gaactctatg ttaggattac cgaaagtga 2040
acgcagattg aacttagcac atacaacata atccttcattg gactttgcaa aaacaaactc 2100
actgatgatg cacttcagat gtttcagaac ctatgttga tggatttgaa gcttgaggct 2160
aggactttca acattatgat tgatgcattg cttaaagtgt gcagaaatga tgaagccaag 2220
gatttgtttg ttgctttctc gtctaaccgt ttagtgccga attattggac gtacaggttg 2280
atggctgaaa atattatagg acaggggttg ctagaagaat tggatcaact ctttctttca 2340
atggaggaca atggctgtac tgttgactct ggcatgctaa atttcattgt tagggaaactg 2400
ttgcagagag gtgagataac cagggtggc acttaccttt ccatgattga tgagaagcac 2460
ttttccctcg aagcatccac tgcttccctg tttatagatc ttttgtctgg gggaaaatat 2520
caagaatatt ataggtttct ccctgaaaaa tacaagtcct ttatagaatc tttgagctgc 2580
tgaagcattt tgcagctttg aaattctgtg ttggaattct tttctcctac agtcctatta 2640
gaggagggat cttctctgta tgtgtaaata gcgagtttga atgctagtgg aagctccttt 2700
gaccatgttt tgttgtgcga gcatthaaga gagtgaagag aatgcttctt tgggtgctgtt 2760
ctggtatgga aggatccaca gataaaattc aggttctact gcttctctgc ttgtaatttt 2820
catgaagctg cagtgaatac cttgttgacc acttgatctg ttgctttgaa ggagaatata 2880
gtagtggcca aggttgggtg cggatgatgg ggcatgtgat cccccagatc ttcagtgacc 2940
cagagaggag gggacggcgc gtggtgagct acaaggcata ctgagtgag ggcaagatca 3000
aggcctcccc tccgtagggg actccgctgc atcaaggcca actgctccga actgatcaat 3060
ttctggtgca gacaggtgct tgcggtcagg tttaaagaagt tggcaaaaat gcttctgaag 3120
aaagggtta atgtgtttca tctcaggaga ttccagatga tccagtgtct ccaacaattg 3180
aggcgcttat tttgctccat agtaaagtaa gttacattgc tgagaaccac cagttgacaa 3240
cacggcttgt tgtaccatca aacaaagttg gttgtattct tggggaagggt ggaagggtaa 3300
ttactgaaat gagaagacgg actggggctg aaatccgagt ctactcaaaa gcagataaac 3360
```

ctaagtacct	gtcttttgat	gaggagcttg	tgcagggtgc	tgggcttcca	gctattgaaa	3420
gaggagccct	gacagagatt	gcttcgaggc	tttgaactag	gacactcaga	gatggaagtt	3480
cttccaataa	tccgacacct	tttgcccctg	ttgatgggtcc	tcctgttgat	atcttgcccta	3540
acaaggaatt	catgctatat	ggacgatctg	ctaatagtcc	cccatatgga	gggcctgcta	3600
atgatccacc	atatggaaga	cctgccattg	atccaccata	tggaagacca	atatccacaa	3660
tatggaagac	ctgccaatga	tccaccatat	agaagacctg	tcaatgatac	atcatattga	3720
gggttgaaca	atgatgggcc	tctgatcag	gcccggctct	gaggggggtc	gaatggggcg	3780
atcgctccgg	gccccccgat	tcccagggcc	cccacctatc	tgtgcaacga	gtagtagcga	3840
tcttccagcg	cgcaacgtga	ggcgatgttt	ctccgtgatt	tcgccggcct	gcaactgcga	3900
gatcgcgagt	ataacgatca	gocgatcgat	ctcatctgcc	gactgccatg	ctgatgccac	3960
acgcaagcgc	agcatatcag	ccttatcttg	gttgatcggc	atgctggacg	agcacatctg	4020
ttgtcgcatc	aactgctgac	tgtatataat	gtgctgggtg	tgaatcgatc	gattgtcgtc	4080
acggaagtga	agaacaacca	cggcactgct	gcctgctggg	ctctagccgc	catcagtaag	4140
ctgcggagct	gatccatgga	cgtgaggatt	accgaagact	gtcaggctct	actgggtatc	4200
caggtggctc	tgtcgaattg	tggattccaa	atagttaact	ggagtctgtc	attggtgttg	4260
gtggtgtcaa	tctagctgag	atccgtctgg	tatagcgtaa	gagaaacatc	atgcactatc	4320
cccagtcata	acgatgcccc	aatggccacc	aatagttttc	ctcgtgaaaa	tctccccttg	4380
atcccagatc	tctgggtgca	gagtgaagtt	gcacgaagcc	catcctgggt	cttccgagtc	4440
cattgtggag	atccagggca	ttccggatca	agtgaagacc	gcacagagcc	ttctgcaagg	4500
cttcatcggc	gcaagcagca	acagcaggca	ggcgccccag	tcctctcgca	tggcccatta	4560
tttttagtaa	gctggaggac	attcgcaaca	gggggggtcag	tggtcactgc	aaagctgagt	4620
ttgttcttca	gttcaactgc	agaaaattgc	agatcggttg	ccgtagtgtg	tagaacggtg	4680
catagttgcc	acctaaactgt	agcgagtggc	ataacttatt	gtgtgttact	gccaatgtt	4740
gtctctcctt	gtgttcatgg	attcagactt	gtgattgtag	tatttctgga	tcagactgga	4800
gtaaaagaaa	aaaaaaaaagg	aagacatggg	tttaacagta	agctcaaaac	gttgacagta	4860
gtaaaataaa	aggggtttgt	tacttttaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	4920
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaa	4978

<210> 73
 <211> 4722
 <212> DNA
 <213> rice

<400> 73						
cgccgatctc	ctacaccatc	cctgccatct	cctccttccc	ctcccctcta	tcctccactg	60
gtgccgcca	cctctccgta	taagacaaac	tgcgttgccg	cggttggttc	cgccggcgct	120
gctgctgcac	ctgtcagcta	ggcggggcat	ggcgcgccgc	gccgcttccc	gcgctgttgg	180
cgcccttcgc	tcggaaggct	cgatccaagg	gcgaggaggc	cgcgcggggg	gcagtggcgc	240
cgaggacgca	cgccacgtgt	tcgacgaatt	gctccgccgt	ggcagggggc	cctcgatcta	300
cggttgaac	cgcgccctcg	ccgacgtcgc	gcgtgacagc	cccgcggccg	ccgtgtcccg	360
ctacaaccgc	atggcccag	ccggcgccga	cgaggtaact	cccgacttgt	gcacctacgg	420
cattctcacc	ggttgctgct	gccgcgcggg	ccgcttgga	ctcggtttcg	cggccttggg	480
caatgtcatt	aagaagggat	ttagagtggg	cgccatcgcc	ttcactcctc	tgctcaaggg	540
cctctgtgcc	gacaagagga	cgagcgacgc	aatggacata	gtgctccgca	gaatgaccga	600
gctcggtgct	ataccaaatg	tcttctccta	caatattctt	ctcaaggggc	tgtgtgatga	660
gaacagaagc	caagaagctc	tcgagctgct	gcacatgatg	gctgatgatc	gaggaggagg	720
tagccacact	gatgtgggtg	cgtataccac	tgtcatcaat	ggcttcttca	aagaggggga	780
ttcagacaaa	gcttacagta	cataccatga	aatgctggac	cggggggattt	tacctgatgt	840
tgtgacctac	aactctatta	ttgctgcggt	atgcaaggct	caagctatgg	acaaagccat	900
ggaggtactt	aacaccatgg	ttaagaatgg	tgtcatgcct	gattgcatga	catataatag	960
tattctgcat	ggatattgct	cttcagggca	gccgaaagag	gctattggat	ttctcaaaaa	1020
gatgcgcagt	gatgggtgctg	aaccagatgt	tgttacttat	agcttgctca	tggattatct	1080
ttgcaagaac	ggaagatgca	tggagctag	aaagattttc	gattctatga	ccaagagggg	1140
cctaaagcct	gaaattacta	cctatggtac	cctgcttcag	gggtatgcta	ccaaaggagc	1200
ccttggtgag	atgcatgtgc	tcttgatttt	gatggtacga	aacggtatcc	accctgatca	1260
ttatgttttc	agcattctaa	tatgtgcata	cgtaaacaa	gggaaagtag	atcaggcaat	1320
gcttgtgttc	agcaaaatga	ggcagcaagg	attgaatccg	aatgcagtga	cgtatggagc	1380

agttataggc	atactttgca	agtcaggcag	agtagaagat	gctatgcttt	attttgagca	1440
gatgatcgat	gaaggactaa	gccctggcaa	cattgtttat	aactccctaa	ttcatgggtt	1500
gtgcacctgt	aacaaatggg	agagggctga	agagttaatt	cttgaaatgt	tggatcgagg	1560
catctgtctg	aacactat	tctttaattc	aataattgac	agtcattgca	aagaagggag	1620
ggttatagaa	tctgaaaaac	tctttgagct	gatgggtacgt	attgggtgta	agcccaatgt	1680
cattacctac	aatactctta	tcaatggata	ttgcttggca	ggtaagatgg	atgaagcaat	1740
gaagtiactt	tctggcatgg	tctcagttgg	gttgaaacct	aatactgtta	cttatagcac	1800
tttgattaat	ggctactgca	aaattagtag	gatggaagac	gcgttagttc	tttttaagga	1860
gatggagagc	agtgggtgta	gtcctgatat	tattacgtat	aacataattc	tgcaagggtt	1920
atttcaaacc	agaagaactg	ctgctgcaaa	agaactctat	gttaggatta	ccgaaagtgg	1980
aacgcagatt	gaacttagca	catacaacat	aatccttcat	ggactttgca	aaaacaaact	2040
cactgatgat	gcacttcaga	tgttttcagaa	cctatgtttg	atggatttga	agcttgaggc	2100
taggactttc	aacattatga	ttgatgcatt	gcttaaagtt	ggcagaaatg	atgaagccaa	2160
ggatttgttt	gttgctttct	cgtctaacgg	tttagtgccg	aattattgga	cgtacagggt	2220
gatggctgaa	aatattatag	gacaggggtt	gctagaagaa	ttggatcaac	tctttctttc	2280
aatggaggag	aatggctgta	ctgttgactc	tggcatgcta	aatttcattg	ttagggaact	2340
gttgacagac	ggtgagataa	ccagggtctg	cacttacctt	tccatgattg	atgagaagca	2400
cttttccttc	gaagcatcca	ctgcttcctt	gtttatagat	cttttgtctg	ggggaataa	2460
tcaagaatat	tataggtttc	tccctgaaaa	atacaagtcc	tttatagaat	ctttgagctg	2520
ctgaagcatt	ttgcagcttt	gaaattctgt	gttggaaattc	ttttctccta	cagtcctatt	2580
agaggaggga	tcttctctgt	atgtgtaaat	agcaggtttg	aatgctagt	gaagctcctt	2640
tgaccatgtt	ttgttgtg	agcatttaag	agagtgaaga	gaatgcttct	ttggtgctgt	2700
tctggtatgg	aaggatccac	agataaaaatt	caggttctac	tgcttctctg	cttgtaattt	2760
tcatgaagct	gcagtgaata	ccttggtgac	cacttgatct	gttgctttga	aggagaatat	2820
agtagtggcc	aaggttggtg	acgggtgatg	tggcatgtga	tccccagat	cttcagtgc	2880
ccagagagga	ggggacggcg	cgtgggtgagc	tacaaggcat	actcagtgg	gggcaagatc	2940
aaggcctccc	gtccgtaggg	gactccgctg	catcaaggcc	aactgctccg	aactgatcaa	3000
tttctggtgc	agacaggtgc	ttgcggtcag	gttaaagaag	ttggcaaaaa	tgcttctgaa	3060
gaaagggttaa	ttgttgtttc	atctcaggag	attccagatg	atccagtgtc	tccaacaatt	3120
gaggcgctta	ttttgtcca	tagtaaaagt	gaaaggtaat	tactgaaatg	agaagacgga	3180
ctggggctga	aatccgagtc	tactcaaaaag	cagataaaacc	taagtacctg	tcttttgatg	3240
aggagcttgt	gcaggttgct	gggcttccag	ctattgaaag	aggagccctg	acagagattg	3300
cttcgaggct	ttgaactagg	acactcagag	atggaagttc	ttccaataat	ccgacacctt	3360
ttgcccctgt	tgatggtcct	cctggtgata	tcttgccctaa	caaggaattc	atgctatatg	3420
gacgatctgc	taatagtcct	ccatatggag	ggcctgctaa	tgatccacca	tatggaagac	3480
ctgccattga	tccaccatat	ggaagaccaa	tatccacaat	atggaagacc	tgccaatgat	3540
ccaccatata	gaagacctgt	caatgatata	tcatattgag	ggttgaacaa	tgatgggcct	3600
cgtgatcagg	cccggctcctg	aggggggtcg	aatggggcga	tcgctccggg	ccccccgatt	3660
cccagggccc	ccacctatct	gtgcaacgag	tagtagcgat	cttccagcgc	gcaacgtgag	3720
gcgatgtttc	tccgtgattt	cgccggcctg	caactgcgag	atcgcgagta	taacgatcag	3780
ccgatcgatc	tcatctgccg	actgccatgc	tgatgccaca	cgcaagcgca	gcataatcagc	3840
cttatcttgg	ttgatcgcca	tgctggacga	gcacatctgt	tgctcgcatca	actgctgact	3900
gctatatatg	tgctggtgct	gaatcgatcg	attgtcgtca	cggaagtga	gaacaaccac	3960
ggcactgctg	cctgctgggc	tctagccgcc	atcagctgcg	gagctgatcc	atggacgtga	4020
ggattaccga	agactgtcag	gtctcactgg	gtatccaggt	ggctctgtcg	aattgtggat	4080
tccaaatagt	taactggagt	ctgtcattgg	tgttggtggt	gtcaatctag	ctgagatccg	4140
tctggtatag	cgtaagagaa	acatcatgca	ctatccccag	tcataaccat	gccccaatgg	4200
ccaccaatag	ttttcctcgt	gaaaatctcc	ccttgatccc	agatctctgg	tgcgagagt	4260
aagttgcacg	aagcccatcc	tggttcttcc	gagtcatttg	tggagatcca	gggcattccg	4320
gatcaagtga	aagccgcaca	gagccttctg	caaggcttca	tcggcgcaag	cagcaacagc	4380
aggcaggcgc	cccagtcctc	tcgcatggcc	cattatTTTT	agtaagctgg	aggacattcg	4440
caacaggggg	gtcagtggtc	actgcaaagc	tgagtttgtt	cttcagttca	actgcagaaa	4500
attgcagatc	ggttgccgta	gttgctagaa	cgttacatag	ttgccacct	actgtagcga	4560
gtggcataac	ttattgtgtg	ttactgccc	atgttgtctc	tccttgtgtt	catggattca	4620
gattgtgat	tgtagtattt	ctggatcaga	ctggagtaaa	agaaaaaaaa	aaaggaagac	4680
atgggtttaa	cagtaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aa		4722

<210> 74
 <211> 6164
 <212> DNA
 <213> rice

<400> 74

```

cgcagaagag atcgatcgcg atctccctgc cccgacgtcg ccggccgacg tctcattctc 60
tccacgccct gctcgtcgcc gatctcctac accatccctg ccatctcctc cttcccctcc 120
cctctatcct ccactgggtgc cgcccacctc tccgtataag acaaactgcg ttgcggcggt 180
ggtttccgcc ggcgctgctg ctgcacctgt cagctagggc gggcatggcg cgccgcgccg 240
cttcccgcgc tgttggcgcc cttcgctcgg acggctcgat ccaagggcga ggaggccgcg 300
cggggggcag tggcgccgag gacgcacgcc acgtgttcga cgaattgctc cgccgtggca 360
ggggcgccct gatctacggc ttgaaccgcg ccctcgccga cgtcgcgcgt gacagccccg 420
cggccgcctg gtcccgtac aaccgcatgg cccgagccgg cgccgacgag gtaactcccc 480
acttgtgcac ctacggcatt ctcatcggtt gctgctgccg cgcgggccgc ttggacctcg 540
gtttcgcggc cttgggcaat gtcattaaga agggatttag agtgagcgcc atcgcttca 600
ctcctctgct caagggcctc tgtgccgaca agaggacgag cgacgcaatg gacatagtgc 660
tccgcagaat gaccgagctc ggctgcatac caaatgtctt ctccataaat attcttctca 720
aggggctgtg tgatgagaac agaagccaag aagctctcga gctgctgcac atgatggctg 780
atgatcgagg aggaggtagc ccacctgatg tgggtgcgta taccactgtc atcaatggct 840
tcttcaaaga gggggattca gacaagcctt acagtacata ccatgaaatg ctggaccggg 900
ggattttacc tgatgtttgt acctacaact ctattattgc tgcgttatgc aaggctcaag 960
ctatggacaa agccatggag gtacttaaca ccatggttaa gaatggtgtc atgcctgatt 1020
gcatgacata taatagtatt ctgcatggat attgctcttc agggcagccg aaagaggcta 1080
ttggattttc caaaaagatg cgcagtgatg gtgtcgaaac agatgttggt acttatagct 1140
tgctcatgga ttatctttgc aagaacggaa gatgcatgga agctagaaag attttcgatt 1200
ctatgaccaa gaggggccta aagcctgaaa ttactaccta tggtagccctg cttcaggggt 1260
atgctaccaa aggagccctt gttgagatgc atggtctctt ggatttgatg gtacgaaacg 1320
gtatccaccc tgatcattat gttttcagca ttctaatatg tgcatacgct aaacaaggga 1380
aagtagatca ggcaatgctt gtgttcagca aaatgaggca gcaaggattg aatccgaatg 1440
cagtgcgta tggagcagtt ataggcatatc tttgcaagtc aggcagagta gaagatgcta 1500
tgctttatct tgagcagatg atcgatgaag gactaagccc tggcaacatt gtttataact 1560
ccctaattca tggtttgtgc acctgtaaca aatgggagag ggctgaagag ttaattcttg 1620
aaatgttggg tcgaggcatc tgtctgaaca ctattttctt taattcaata attgacagtc 1680
attgcaaaga agggagggtt atagaatctg aaaaactctt tgagctgatg gtacgtattg 1740
gtgtgaagcc caatgtcatt acctacaata ctcttatcaa tggatattgc ttggcaggta 1800
agatggatga agcaatgaag ttactttctg gcatggtctc agttgggttg aaacctaata 1860
ctgttactta tagcactttg attaatggct actgcaaaat tagtaggatg gaagacgcgt 1920
tagttctttt taaggagatg gagagcagtg gtgttagtcc tgatattatt acgtataaca 1980
taattctgca aggtttatct caaaccagaa gaactgctgc tgcaaaaagaa ctctatgtta 2040
ggattaccga aagtggaacg cagattgaac ttagcacata caacataatc cttcatggac 2100
tttgcaaaaa caaactcact gatgatgcac ttcagatgtt tcagaacctc tgtttgatgg 2160
atttgaagct tgaggctagg actttcaaca ttatgattga tgcattgctt aaagttggca 2220
gaaatgatga agccaaggat ttgtttgttg ctttctcgtc taacggttta gtgccgaatt 2280
attggacgta caggttgatg gctgaaaata ttataggaca ggggttgcta gaagaattgg 2340
atcaactctt tctttcaatg gaggacaatg gctgtactgt tgactctggc atgctaaatt 2400
tcattgttag ggaactgttg cagagagggt agataaccag ggctggcact tacctttcca 2460
tgattgatga gaagcacttt tccctcgaag catccactgc ttccttgttt atagatcttt 2520
tgtctggggg aaaatatcaa gaatattata ggtttctccc tgaaaaatac aagtccttta 2580
tagaatcttt gagctgctga agcattttgc agctttgaaa ttctgtgttg gaattctttt 2640
ctcctacagt cctattagag gagggatctt ctctgtatgt gtaaatagcg aggtatgtat 2700
gccacctctc cgaattatct ttactgtggt tcctagactg taaacaagca attatgttat 2760
gctgttgatg ccagaaaaaa cataaaagtt tgtcgttatc tctactaacg gatcataaag 2820
ggattttgtg ctggagtttc aaacttaatg tgtctaggca gtaattttga cattagatcc 2880
aaaacaattt atagggtttc attaaatttc atctatgtgt actgtttagg tgttgaatag 2940
tttgacttgt ttttaactg aacaaaagat atgtctgaag ctttgttctt taccaaagtc 3000
agtactgac atcacaatat attttttatg gaacaagatt ggattgtata gaatgggttc 3060

```

tgatctgatt	atcttatctc	aacgtattat	tatgcacatg	tactaatcat	gaaatatctg	3120
atggaatgat	gtttctatct	acctgtgtga	ggcagcaagg	agtgagatgg	ataacaccac	3180
atactccctc	tgtcccagaa	tataagaagt	tttagagttg	gacacgatta	ttaagaaaagt	3240
aggtagaagt	gagtagtgga	gggttgtgat	tgcattgagta	gtggaggtag	gtgggaaaag	3300
tgaatggtgg	agggttgtga	ttggttggga	agagaatgtt	ggtagagaag	ttgttatatt	3360
ttggggagta	cattattatt	ctagaacaat	actgttgtgc	tcaagaagcg	ttccaaagat	3420
gtttcacac	ctgtgctcga	tgggttttga	gcttaatcct	gggacattca	gtatcatgat	3480
ctgtctcatt	cttaaacatg	gaataaagga	tgacagcatg	atttctttgt	ctctataatc	3540
ttttggctac	ccacagataa	tagctgtaaa	tctatactac	tttaaaagga	gtagtgggtg	3600
tggtgagtg	tgaatctgcc	accacccccc	caccaactct	caaaattctg	acatgtggga	3660
tcaactgtcaa	tcccttctcc	aagacatgtg	ggatcactgt	caatcccttc	tccaaaccaa	3720
ttgtatgata	gaacagtggg	aatcacggac	agaccatgga	gctctcaacc	ataatcatcc	3780
ttgcgagtta	ataacaaatg	gagcgtaaac	ttggcaagca	aaaaactcaa	attaattcta	3840
aaattaagct	ctaggattca	aaatagattt	cctctctgca	ttgtgctggt	atgattttta	3900
attccgtaac	aacgcaaagt	catttttgcta	gtcttataaa	gaagggttaa	tgcaaatatt	3960
ctgattaaat	gattgtatct	atgaagtttg	aatgctagt	gaagctcctt	tgaccatggt	4020
ttgttgtg	agcatttaag	agagtgaaga	gaatgcttct	ttgggtgctg	tctgggtatg	4080
aaggatccac	agataaaatt	cagggttctac	gtcttctctg	cttgtaattt	tcatgaaagt	4140
gcagtgaata	ccttggtgac	cacttgatct	gttgctttga	aggagaatat	agtagtggtg	4200
aagggttggt	acggtgatgg	tggcatgtga	tccccagat	cttcagtga	ccagagagga	4260
ggggacggcg	cgtggtgagc	tacaaggcat	actcagtgga	gggcaagatc	aaggcctccc	4320
gtccgtaggg	gactccgctg	catcaaggcc	aactgctccg	aactgatcaa	tttctggtgc	4380
agacaggtgc	ttgcggtcag	gttaaagaag	ttggcaaaaa	tgcttctgaa	gaaagggtta	4440
ttgttgtttc	atctcaggag	attccagatg	atccagtgtc	tccaacaatt	gaggcgctta	4500
ttttgctcca	tagtaaagta	agtacacttg	ctgagaacca	ccagttgaca	acacggcttg	4560
ttgtaccatc	aaacaaagtt	ggttgtattc	ttggggaagg	tggaaaaggta	attactgaaa	4620
tgagaagacg	gactggggct	gaaatccgag	tctactcaaa	agcagataaa	cctaagtacc	4680
tgtcttttga	tgaggagctt	gtgcagggtt	ctgggcttcc	agctattgaa	agaggagccc	4740
tgacagagat	tgcttcgagg	ctttgaacta	ggacactcag	agatggaaagt	tcttccaata	4800
atccgacacc	ttttgcccct	gttgatggtc	ctcctgttga	tatcttgctt	aacaaggaat	4860
tcatgctata	tggacgatct	gctaatagtc	ccccatatgg	agggcctgct	aatgatccac	4920
catatggaag	acctgccatt	gatccaccat	atggaagacc	aatatccaca	atatggaaga	4980
cctgccaatg	atccaccata	tagaagacct	gtcaatgata	catcatattg	agggttgaa	5040
aatgtatggc	tctcgatcca	ggcccgggtc	tgaggggggg	cgaatggggc	gatcgctccg	5100
ggccccccga	ttcccagggc	ccccacctat	ctgtgcaacg	agtagtagcg	atcttccagc	5160
gcgcaacgtg	aggcgatggt	tctccgtgat	ttcgccggcc	tgcaactgcg	agatcgcgag	5220
tataacgata	agccgatcga	tctcatctgc	cgactgccat	gctgatgcca	cacgcaagcg	5280
cagcatatca	gccttatctt	ggttgatcgg	catgctggac	gagcacatct	gttgtcgcat	5340
caactgctga	ctgctatata	tgtgctgggt	ctgaatcgat	cgattgtcgt	cacggaagt	5400
aagaacaacc	acggcactgc	tgctgctgg	gctctagccg	ccatcagctg	cggagctgat	5460
ccatggacgt	gaggattacc	gaagactgtc	aggtctcact	gggtatccag	gtggctctgt	5520
cgaattgtgg	attccaaata	gttaactgga	gtctgtcatt	ggtgttggtg	gtgtcaatct	5580
agctgagatc	cgtctggtat	agcgtaagag	aaacatcatg	cactatcccc	agtcataacc	5640
atgccccaat	ggccaccaat	agttttcctc	gtgaaaatct	ccccttgatc	ccagatctct	5700
ggtgcgagag	tgaagttgca	cgaagcccat	cctgggttct	ccgagtccat	tgtggagatc	5760
cagggcattc	cggatcaagt	gaaagccgca	cagagccttc	tgcaaggctt	catcggcgca	5820
agcagcaaca	gcaggcaggc	gccccagtc	tctcgcatgg	cccattatct	ttagtaagct	5880
ggaggacatt	cgcaacaggg	gggtcagtg	tactgcaaaa	gctgagtttg	ttcttcagtt	5940
caactgcaga	aaattgcaga	tcggttgccg	tagttgctag	aacggtacat	agttgccacc	6000
taactgtagc	gagtggcata	acttattgtg	tgttactgcc	caatgttgct	tctccttggt	6060
ttcatggatt	cagacttggt	attgtagtat	ttctggatca	gactggagta	aaagaaaaaa	6120
aaaaaggaag	acatgggttt	aacagtaaaa	aaaaaaaaaa	aaaa		6164

<210> 75
 <211> 791
 <212> PRT
 <213> rice

<400> 75

Met	Ala	Arg	Arg	Ala	Ala	Ser	Arg	Ala	Val	Gly	Ala	Leu	Arg	Ser	1	5	10	15
Asp	Gly	Ser	Ile	Gln	Gly	Arg	Gly	Gly	Arg	Ala	Gly	Gly	Ser	Gly	20	25	30	
Ala	Glu	Asp	Ala	Arg	His	Val	Phe	Asp	Glu	Leu	Leu	Arg	Arg	Gly	35	40	45	
Arg	Gly	Ala	Ser	Ile	Tyr	Gly	Leu	Asn	Arg	Ala	Leu	Ala	Asp	Val	50	55	60	
Ala	Arg	Asp	Ser	Pro	Ala	Ala	Ala	Val	Ser	Arg	Tyr	Asn	Arg	Met	65	70	75	
Ala	Arg	Ala	Gly	Ala	Asp	Glu	Val	Thr	Pro	Asp	Leu	Cys	Thr	Tyr	80	85	90	
Gly	Ile	Leu	Ile	Gly	Cys	Cys	Cys	Arg	Ala	Gly	Arg	Leu	Asp	Leu	95	100	105	
Gly	Phe	Ala	Ala	Leu	Gly	Asn	Val	Ile	Lys	Lys	Gly	Phe	Arg	Val	110	115	120	
Asp	Ala	Ile	Ala	Phe	Thr	Pro	Leu	Leu	Lys	Gly	Leu	Cys	Ala	Asp	125	130	135	
Lys	Arg	Thr	Ser	Asp	Ala	Met	Asp	Ile	Val	Leu	Arg	Arg	Met	Thr	140	145	150	
Glu	Leu	Gly	Cys	Ile	Pro	Asn	Val	Phe	Ser	Tyr	Asn	Ile	Leu	Leu	155	160	165	
Lys	Gly	Leu	Cys	Asp	Glu	Asn	Arg	Ser	Gln	Glu	Ala	Leu	Glu	Leu	170	175	180	
Leu	His	Met	Met	Ala	Asp	Asp	Arg	Gly	Gly	Gly	Ser	Pro	Pro	Asp	185	190	195	
Val	Val	Ser	Tyr	Thr	Thr	Val	Ile	Asn	Gly	Phe	Phe	Lys	Glu	Gly	200	205	210	
Asp	Ser	Asp	Lys	Ala	Tyr	Ser	Thr	Tyr	His	Glu	Met	Leu	Asp	Arg	215	220	225	
Gly	Ile	Leu	Pro	Asp	Val	Val	Thr	Tyr	Asn	Ser	Ile	Ile	Ala	Ala	230	235	240	
Leu	Cys	Lys	Ala	Gln	Ala	Met	Asp	Lys	Ala	Met	Glu	Val	Leu	Asn	245	250	255	
Thr	Met	Val	Lys	Asn	Gly	Val	Met	Pro	Asp	Cys	Met	Thr	Tyr	Asn	260	265	270	
Ser	Ile	Leu	His	Gly	Tyr	Cys	Ser	Ser	Gly	Gln	Pro	Lys	Glu	Ala	275	280	285	
Ile	Gly	Phe	Leu	Lys	Lys	Met	Arg	Ser	Asp	Gly	Val	Glu	Pro	Asp	290	295	300	
Val	Val	Thr	Tyr	Ser	Leu	Leu	Met	Asp	Tyr	Leu	Cys	Lys	Asn	Gly	305	310	315	
Arg	Cys	Met	Glu	Ala	Arg	Lys	Ile	Phe	Asp	Ser	Met	Thr	Lys	Arg	320	325	330	
Gly	Leu	Lys	Pro	Glu	Ile	Thr	Thr	Tyr	Gly	Thr	Leu	Leu	Gln	Gly	335	340	345	
Tyr	Ala	Thr	Lys	Gly	Ala	Leu	Val	Glu	Met	His	Gly	Leu	Leu	Asp	350	355	360	
Leu	Met	Val	Arg	Asn	Gly	Ile	His	Pro	Asp	His	Tyr	Val	Phe	Ser	365	370	375	
Ile	Leu	Ile	Cys	Ala	Tyr	Ala	Lys	Gln	Gly	Lys	Val	Asp	Gln	Ala	380	385	390	
Met	Leu	Val	Phe	Ser	Lys	Met	Arg	Gln	Gln	Gly	Leu	Asn	Pro	Asn	395	400	405	
Ala	Val	Thr	Tyr	Gly	Ala	Val	Ile	Gly	Ile	Leu	Cys	Lys	Ser	Gly				

Arg Val Glu Asp	410	415	420
Ala Met Leu Tyr Phe		Glu Gln Met Ile Asp	Glu
	425	430	435
Gly Leu Ser Pro		Asn Ser Leu Ile His	Gly
	440	445	450
Leu Cys Thr Cys		Ala Glu Glu Leu Ile	Leu
	455	460	465
Glu Met Leu Asp		Asn Thr Ile Phe Phe	Asn
	470	475	480
Ser Ile Ile Asp		Gly Arg Val Ile Glu	Ser
	485	490	495
Glu Lys Leu Phe		Ile Gly Val Lys Pro	Asn
	500	505	510
Val Ile Thr Tyr		Gly Tyr Cys Leu Ala	Gly
	515	520	525
Lys Met Asp Glu		Ser Gly Met Val Ser	Val
	530	535	540
Gly Leu Lys Pro		Ser Thr Leu Ile Asn	Gly
	545	550	555
Tyr Cys Lys Ile		Ala Leu Val Leu Phe	Lys
	560	565	570
Glu Met Glu Ser		Asp Ile Ile Thr Tyr	Asn
	575	580	585
Ile Ile Leu Gln		Arg Arg Thr Ala Ala	Ala
	590	595	600
Lys Glu Leu Tyr		Ser Gly Thr Gln Ile	Glu
	605	610	615
Leu Ser Thr Tyr		Gly Leu Cys Lys Asn	Lys
	620	625	630
Leu Thr Asp Asp		Gln Asn Leu Cys Leu	Met
	635	640	645
Asp Leu Lys Leu		Asn Ile Met Ile Asp	Ala
	650	655	660
Leu Leu Lys Val		Ala Lys Asp Leu Phe	Val
	665	670	675
Ala Phe Ser Ser		Asn Tyr Trp Thr Tyr	Arg
	680	685	690
Leu Met Ala Glu		Gly Leu Leu Glu Glu	Leu
	695	700	705
Asp Gln Leu Phe		Asn Gly Cys Thr Val	Asp
	710	715	720
Ser Gly Met Leu		Glu Leu Leu Gln Arg	Gly
	725	730	735
Glu Ile Thr Arg		Ser Met Ile Asp Glu	Lys
	740	745	750
His Phe Ser Leu		Ser Leu Phe Ile Asp	Leu
	755	760	765
Leu Ser Gly Gly		Tyr Arg Phe Leu Pro	Glu
	770	775	780
Lys Tyr Lys Ser		Phe Ile Glu Ser Leu	Ser Cys
	785	790 791	

<210> 76
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide primer for amplification

<400> 76
 tctcattctc tccacgccct gctc 24

<210> 77
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide primer for amplification

<400> 77
 acggcggagc aattcgtcga acac 24

<210> 78
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide primer for amplification

<400> 78
 agtgtgtggc atggtgcatt tccg 24

<210> 79
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide primer for amplification

<400> 79
 ctctacagga tacacggtgt aagg 24

<210> 80
 <211> 4746
 <212> DNA
 <213> rice

<400> 80
 gccgcgcaga agagatcgat cgcgatctcc ctgccccgac gtgcgcggcc gatctctcat 60
 tctctccacg cctgctcgt cgcgatctc ctacaccatc cctgccatct cctccttccc 120
 ctccccctcta tctccactg gtgcgcgcca cctctccgta taagacaaac tgcgttgccg 180
 cgttggtttc cgcgcgcgt gctgctgcac ctgtcagcta gggcgggcat ggcgcgcgc 240
 gccgcttccc gcgctgttg cgccttcgc tggacggct cgatccaagg gcgaggaggc 300
 cgcgcggggg gcagtgggc cgaggacga cgccacgtgt tcgacgaatt gctccgccgt 360
 ggcaggggcg cctcgatcta cggcttgaac cgcgcctcgc ccgacgtcgc gcgtgacagc 420
 cccgcggcgc cgtgtcccc ctacaaccgc atggcccag ccggcgccga cgaggtaact 480
 ccgacttgt gcacctacgc cattctcatc ggttgctgct gccgcgcggg ccgcttgagc 540
 ctcggtttcg cggccttgg caatgtcatt aagaaggat ttagagtga cgccatcgcc 600
 ttactcctc tgctcaagg cctctgtgcc gacaagagga cgagcgacgc aatggacata 660
 gtgctccga gaatgaccga gctcggctgc ataccaaatg tcttctccta caatattctt 720

ctcaaggggc	tgtgtgatga	gaacagaagc	caagaagctc	tcgagctgct	gcacatgatg	780
gctgatgac	gaggaggagg	tagccacact	gatgtggtgt	cgtataccac	tgatcatcaat	840
ggcttcttca	aagaggggga	ttcagacaaa	gcttacagta	cataccatga	aatgctggac	900
cgggggattt	tacctgatgt	tgtgacctac	aactctatta	ttgctgcgtt	atgcaaggct	960
caagctatgg	acaaagccat	ggaggctactt	aacaccatgg	ttaagaatgg	tgatcatgcct	1020
gattgcatga	catataatag	tattctgcat	ggatattgct	cttcagggca	gccgaaagag	1080
gctattggat	ttctcaaaaa	gatgcgcagt	gatggtgtcg	aaccagatgt	tggtacttat	1140
agcttgctca	tggattatct	ttgcaagaac	ggaagatgca	tggaagctag	aaagattttc	1200
gattctatga	ccaagagggg	cctaaagcct	gaaattacta	cctatggtac	cctgcttcag	1260
gggtatgcta	ccaaaggagc	ccttggttag	atgcatggct	tcttggtatt	gatggtacga	1320
aacggtatcc	accctgatca	ttatgttttc	agcattctaa	tatgtgcata	cgctaaacaa	1380
gggaaagtag	atcaggcaat	gcttggtgtt	agcaaaatga	ggcagcaagg	attgaatccg	1440
aatgcagtga	cgtatggagc	agttataggc	atactttgca	agtcaggcag	agtagaagat	1500
gctatgcttt	attttgagca	gatgatcgat	gaaggactaa	gccctggcaa	cattgtttat	1560
aactccctaa	ttcatgggtt	gtgcacctgt	aacaaatggg	agagggctga	agagttaatt	1620
cttgaaatgt	tggatcgagg	catctgtctg	aacactattt	tctttaattc	aataattgac	1680
agtcattgca	aagaaggagg	ggttatagaa	tctgaaaaac	tctttgagct	gatggtacgt	1740
attggtgtga	agcccaatgt	cattacctac	aatactctta	tcaatggata	ttgcttgcca	1800
ggtaagatgg	atgaagcaat	gaagttactt	tctggcatgg	tctcagttgg	gttgaaacct	1860
aatactgtta	cttatagcac	tttgattaat	ggctactgca	aaattagtag	gatggaagac	1920
gcgttagttc	tttttaagga	gatggagagc	agtgggtgta	gtcctgatat	tattacgtat	1980
aacataattc	tgcaagggtt	atttcaaacc	agaagaactg	ctgctgcaaa	agaactctat	2040
gttaggatta	ccgaaagtgg	aacgcagatt	gaacttagca	catacaacat	aatccttcat	2100
ggactttgca	aaaacaaact	cactgatgat	gcacttcaga	tgtttcagaa	cctatgtttg	2160
atggatttga	agcttgaggc	taggactttc	aacattatga	ttgatgcatt	gcttaaagtt	2220
ggcagaaatg	atgaagccaa	ggatttggtt	gttgctttct	cgtctaacgg	tttagtgccg	2280
aattattgga	cgtacagggt	gatggctgaa	aataattatg	gacaggggtt	gctagaagaa	2340
ttggatcaac	tctttctttc	aatggaggac	aatggctgta	ctgttgactc	tggtatgcta	2400
aatttcattg	ttagggaact	gttgacagaga	ggtgagataa	ccagggtctg	cacttacctt	2460
tccatgattg	atgagaagca	cttttccctc	gaagcatcca	ctgcttcctt	gtttatagat	2520
cttttgtctg	ggggaaaata	tcaagaatat	tatagggttt	tccctgaaaa	atacaagtcc	2580
tttatagaat	ctttgagctg	ctgaagcatt	ttgcagcttt	gaaattctgt	gttggaattc	2640
ttttctccta	cagtcctatt	agaggaggga	tcttctctgt	atgtgtaaat	agcgagtttg	2700
aatgctagtg	gaagctcctt	tgacctggtt	ttggtgtgctg	agcatttaag	agagtgaaga	2760
gaatgcttct	ttggtgctgt	tctggtatgg	aaggatccac	agataaaaatt	cagtagtggc	2820
caaggttggt	gacgggtgat	gtggcatgtg	atccccaga	tcttcagtga	cccagagagg	2880
aggggacggc	gcgtggtgag	ctacaaggca	tactcagtgg	agggcaagat	caaggcctcc	2940
cgtccgtagg	ggactccgct	gcatcaaggc	caactgctcc	gaactgatca	atttctggtg	3000
cagacagggtg	cttgcggtca	ggttaaagaa	gttggcacaa	atgcttctga	agaaagggtta	3060
attgttggtt	catctcagga	gattccagat	gatccagtgt	ctccaacaat	tgaggcgctt	3120
attttgctcc	atagtaaagt	aagtacactt	gctgagaacc	accagttgac	aacacggctt	3180
gttgtagcat	caaacaaagt	tggttgattt	cttggggaag	gtggaaagggt	aattactgaa	3240
atgagaagac	ggactggggc	tgaaatccga	gtctactcaa	aagcagataa	acctaagtac	3300
ctgtcttttg	atgaggagct	tgtgcagggt	gctgggcttc	cagctattga	aagaggagcc	3360
ctgacagaga	ttgcttcgag	gctttgaact	aggacactca	gagatggaag	ttcttccaat	3420
aatccgacac	cttttgcccc	tggtgatggt	cctcctgttg	atatcttgcc	taacaaggaa	3480
ttcatgctat	atggaogatc	tgctaatagt	cccccatatg	gagggcctgc	taatgatcca	3540
ccatatggaa	gacctgccat	tgatccacca	tatggaagac	caatatccac	aatatggaa	3600
acctgccaat	gatccaccat	atagaagacc	tgtcaatgat	acatcatatt	gagggttgaa	3660
caatgatggg	cctcgtgatc	aggcccggct	ctgagggggg	tcgaatgggg	cgatcgctcc	3720
gggccccccg	attcccaggg	ccccaccta	tctgtgcaac	gagtagtagc	gatcttccag	3780
cgcgcaacgt	gaggcgatgt	ttctccgtga	tttcgcgggc	ctgcaactgc	gagatcgcca	3840
gtataacgat	cagccgatcg	atctcatctg	ccgactgcca	tgctgatgcc	acacgcaagc	3900
gcagcatatc	agccttatct	tggttgatcg	gcatgctgga	cgagcacatc	tggtgtcgca	3960
tcaactgctg	actgctatat	atgtgctggt	gctgaatcga	tcgattgtcg	tcacggaagt	4020
gaagaacaac	cacggcactg	ctgcctgctg	ggctctagcc	gccatcagct	gcggagctga	4080
tccatggacg	tgaggattac	cgaagactgt	cagggtctcac	tgggtatcca	ggtggctctg	4140

atgctaaatt	tcattgttag	ggaactgttg	cagagaggtg	agataaccag	ggctggcact	2400
tacctttcca	tgattgatga	gaagcacttt	tccctcgaag	catccactgc	ttccttggtt	2460
atagatcttt	tgtctggggg	aaaatatcaa	gaatattata	ggtttctccc	tgaaaaatac	2520
aagtccttta	tagaatcttt	gagctgctga	agcattttgc	agctttgaaa	ttctgtgttg	2580
gaattctttt	ctcctacagt	cctattagag	gagggatctt	ctctgtatgt	gtaaatagcg	2640
agtttgaatg	ctagtggaa	ctcctttgac	catgttttgt	tgtgcgagca	tttaagagag	2700
tgaagagaat	gcttcttttg	tgtgtttctg	gtatggaagg	atccacagat	aaaattcagg	2760
agaatatagt	agtggccaag	gttgggtgacg	gtgatgggtg	catgtgatcc	cccagatctt	2820
cagtgaacca	gagaggagg	gacggcgctg	ggtgagctac	aaggcatact	cagtggagg	2880
caagatcaag	gcctcccgtc	cgtaggggac	tccgctgcat	caaggccaac	tgctccgaac	2940
tgatcaattt	ctggtgcaga	caggtgcttg	cggtcagggt	aaagaagttg	gcaaaaatgc	3000
ttctgaagaa	aggttaattg	ttgtttcatc	tcaggagatt	ccagatgata	cagtgtctcc	3060
aacaattgag	gcgcttattt	tgtccatag	taaagtaagt	acacttgctg	agaaccacca	3120
gttgacaaca	cggcttggtg	taccatcaaa	caaagtttgt	tgtattcttg	gggaagggtg	3180
aaaggtaatt	actgaaatga	gaagacggac	tggggctgaa	atccgagtct	actcaaaagc	3240
agataaacct	aagtacctgt	cttttgatga	ggagcttggt	caggttgctg	ggcttccagc	3300
tattgaaaga	ggagccctga	cagagattgc	ttcgaggctt	tgaactagga	cactcagaga	3360
tggagttct	tccaataatc	cgacaccttt	tggccctggt	gatggctctc	ctgttgatat	3420
cttgccctaac	aagggaattca	tgtctatatg	acgatctgct	aatagtcccc	catatggagg	3480
gcctgctaata	gatccaccat	atggaagacc	tgccattgat	ccaccatatg	gaagaccaat	3540
atccacaata	tgggaagacct	gccaatgata	caccatatag	aagacctgtc	aatgatacat	3600
catattgagg	gttgaacaat	gatgggcctc	gtgatcaggc	ccggtcctga	gggggggtcg	3660
atggggcgat	cgctccgggc	cccccgattc	ccagggccccc	cacctatctg	tgcaacgagt	3720
agtagcgatc	ttccagcgcg	caacgtgagg	cgatgtttct	ccgtgatttc	gccggcctgc	3780
aactgcgaga	tcgcgagtat	aacgatcagc	cgatcgatct	catctgccga	ctgccatgct	3840
gatgccacac	gcaagcgag	catatcagcc	ttatcttggt	tgatcgccat	gctggacgag	3900
cacatctgtt	gtcgcatcaa	ctgctgactg	ctatatatgt	gctggtgctg	aatcgatcga	3960
ttgtcgtcac	ggaagtgaag	aacaaccacg	gcactgctgc	ctgctgggct	ctagccgcca	4020
tcagctgcgg	agctgatcca	tggacgtgag	gattaccgaa	gactgtcagg	tctcactggg	4080
tatccagggtg	gctctgtcga	attgtggatt	ccaaatagtt	aactggagtc	tgtcattgggt	4140
gttgggtggtg	tcaatctagc	tgagatccgt	ctggtatagc	gtaagagaaa	catcatgcac	4200
tatccccagt	cataaccatg	ccccaatggc	caccaatagt	tttcctcgtg	aaaatctccc	4260
cttgatccca	gatctctggt	gcgagagtga	agttgcacga	agcccatcct	ggttcttccg	4320
agtcatttgt	ggagatccag	ggcattccgg	atcaagtga	agccgcacag	agccttctgc	4380
aaggcttcct	cggcgcaagc	agcaacagca	ggcaggcgcc	ccagtcctct	cgcattggcc	4440
attattttta	gtaagctgga	ggacattcgc	aacagggggg	tcagtgggtc	ctgcaaagct	4500
gagtttgttc	ttcagttcaa	ctgcagaaaa	ttgcagatcg	gttgccgtag	ttgctagaac	4560
ggtacatagt	tgccacctaa	ctgtagcgag	tggcataact	tattgtgtgt	tactgcccc	4620
tgttgtctct	ccttgtgttc	atggattcag	acttgtgatt	gtagtatttc	tggatcagac	4680
tggagtaaaa	gaaaaaaaaa	aagggaagaca	tgggtttaac	agtaaaaaaa	aaaaaaaaaa	4740
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa			4779

<210> 82
 <211> 6158
 <212> DNA
 <213> rice

<400> 82	
cgcgacagaag	agatcgatcg
ctctccacgcc	ctgctcgtcg
ccccctctatc	ctccactggg
ttggtttccg	ccggcgctgc
cgcttcccgc	gctgtttggcg
cgcggggggc	agtggcgccg
cagggggcgcc	tcgatctacg
cgcgggcgcc	gtgtcccgtc
cgacttgtgc	acctacggca
cgatctccct	gccccgacgt
ccgatctcct	acaccatccc
gcccggccacc	tctccgtata
tgtctgcacct	gtcagctagg
ggacggctcg	atccaagggc
ccactgttgc	gacgaattgc
gcttgaaccg	gcttgaaccg
ggccctcgcc	gacgtcgcgc
ggcccgagcc	ggcgccgacg
ttctcatcgg	ttgtgtgtgc
tctctcattc	60
tccttcccct	120
cgttgccggc	180
cgcgcgcgc	240
gaggaggccg	300
tccgcccgtg	360
gtgacagccc	420
aggtaactcc	480
gcttggacct	540

cggtttcgcg	gccttgggca	atgtcattaa	gaagggattt	agagtggacg	ccatcgccctt	600
cactcctctg	ctcaagggcc	tctgtgccga	caagaggacg	agcgacgcaa	tggacatagt	660
gctccgcaga	atgaccgagc	tcggtgcat	accaaattgtc	ttctcctaca	atattcttct	720
caaggggctg	tgtgatgaga	acagaagcca	agaagctctc	gagctgctgc	acatgatggc	780
tgatgatcga	ggaggaggta	gccacactga	tgtggtgtcg	tataccactg	tcatcaatgg	840
cttcttcaaa	gagggggatt	cagacaaagc	ttacagtaca	tacatgaaa	tgctggaccg	900
ggggatttta	cctgatgttg	tgacctacaa	ctctattatt	gctgcgttat	gcaaggctca	960
agctatggac	aaagccatgg	aggtacttaa	caccatgggt	aagaatgggtg	tcatgcctga	1020
ttgcatgaca	tataatagta	ttctgcatgg	atattgctct	tcagggcagc	cgaaagaggc	1080
tattggattt	ctcaaaaaga	tgcgcagtga	tgggtgtcgaa	ccagatgttg	ttactttatag	1140
cttgctcatg	gattatcttt	gcaagaacgg	aagatgcatg	gaagctagaa	agattttcga	1200
ttctatgacc	aagagggggc	taaagcctga	aattactacc	tatggtaccc	tgcttcaggg	1260
gtatgctacc	aaaggagccc	ttgttgagat	gcatggtctc	ttggatttga	tggtacgaaa	1320
cggtatccac	cctgatcatt	atgttttcag	cattctaata	tgtgcatacg	ctaaacaagg	1380
gaaagtagat	caggcaatgc	ttgtgttcag	caaatgagg	cagcaaggat	tgaatccgaa	1440
tgcatgacg	tatggagcag	ttataggcat	actttgcaag	tcaggcagag	tagaagatgc	1500
taigctttat	tttgagcaga	tgatcgatga	aggactaagc	cctggcaaca	ttgtttataa	1560
ctccctaatt	catggtttgt	gcacctgtaa	caaatgggag	agggctgaag	agttaattct	1620
tgaaatgttg	gatcgaggca	tctgtctgaa	cactattttc	tttaattcaa	taattgacag	1680
tcattgcaaa	gaagggaggg	ttatagaatc	tgaaaaactc	tttgagctga	tggtacgtat	1740
tgggtgtgaag	cccaatgtca	ttacctacaa	tactcttata	aatggatatt	gcttggcagg	1800
taagatggat	gaagcaatga	agttactttc	tggcatgggtc	tcagttgggt	tgaaacctaa	1860
tactgttact	tatagcactt	tgattaatgg	ctactgcaaa	attagtagga	tggaagacgc	1920
gttagttctt	tttaaggaga	tggagagcag	tgggtgttagt	cctgatatta	ttacgtataa	1980
cataattctg	caaggtttat	ttcaaaccag	aagaactgct	gctgcaaaaag	aactctatgt	2040
taggattacc	gaaagtggaa	cgcagattga	acttagcaca	tacaacataa	tccttcatgg	2100
actttgcaaa	aacaaactca	ctgatgatgc	acttcagatg	tttcagaacc	tatgtttgat	2160
ggatttgaag	cttgaggcta	ggactttcaa	cattatgatt	gatgcattgc	ttaaagtgtg	2220
cagaaatgat	gaagccaagg	atttgtttgt	tgctttctcg	tctaacgggt	tagtgccgaa	2280
ttattggacg	tacaggttga	tggctgaaaa	tattatagga	caggggttgc	tagaagaatt	2340
ggatcaactc	tttctttcaa	tggaggacaa	tggctgtact	gttgactctg	gcatgctaaa	2400
tttcattggt	agggaaactgt	tgcagagagg	tgagataacc	agggctggca	cttacctttc	2460
catgattgat	gagaagcact	tttccctcga	agcatccact	gcttccttgt	ttatagatct	2520
tttgcctggg	ggaaaatata	aagaatatta	taggtttctc	cctgaaaaat	acaagtcctt	2580
tatagaatct	ttgagctgct	gaagcatttt	gcagctttga	aattctgtgt	tggaaattctt	2640
ttctcctaca	gtcctattag	aggagggatc	ttctctgtat	gtgtaaataag	cgagggtatgt	2700
atgccacctc	tccgaattat	ttttactgtg	gttcctagac	tgtaaacaag	caattatggt	2760
atgctgttga	tgccagaaaa	aacataaaag	tttgtcggtta	tctctactaa	cggatcataa	2820
agggatttgt	gactggagtt	tcaaacttaa	tgtgtctagg	cagtaatttt	gacattagat	2880
ccaaaacaat	ttatagggtt	tcattaaatt	tcatctatgt	gtactgttta	ggtgttgaat	2940
agtttgactt	gttttttaac	tgaacaaaag	atatgtctga	agctttgttc	tttaccaaat	3000
gcagtactga	tcatcacaa	atatttttta	tggaaacaaga	ttggattgta	tagaatggtt	3060
tctgatctga	ttatcttata	tcaacgtatt	attatgcaca	tgtactaatc	atgaaatata	3120
tgatggaatg	atgtttctat	ttacctgtgt	gaggcagcaa	ggagtggagt	ggataacacc	3180
acatactccc	tctgtcccag	aatataagaa	gttttagagt	tggacacgat	tattaagaaa	3240
gtaggtagaa	gtgagtagtg	gagggtttgt	attgcatgag	tagtggagggt	aggtgggaaa	3300
agtgaatggt	ggaggggttg	gattgggttg	gaagagaatg	ttggtagaga	agttgttata	3360
ttttggggag	tacattatta	ttctagaaca	atactgttgt	gctcaagaag	cgttccaaag	3420
atgtttcaca	acctgtgctc	gatgggtttt	gagcttaata	ctgggacatt	cagtatcatg	3480
atctgtctca	ttcttaaaaa	tggataaaag	gatgacagca	tgattttctt	gtctctataa	3540
tcttttggct	acccacagat	aatagctgta	aatctatact	actttaaaag	gagtagtggt	3600
ggtggtgagt	ggtgaactctg	ccaccacccc	accaccaact	ctcaaaattc	tgacatgttg	3660
gatcactgtc	aatcccttct	ccaagacatg	tgggactact	gtcaatccct	tctccaaacc	3720
aattgtatga	tagaacagtg	gaaatcacgg	acagaccatg	gagctctcaa	ccataatcat	3780
ccttgcgagt	taataacaaa	tggagcgtaa	acttggcaag	caaaaaactc	aaattaattc	3840
taaaattaag	ctctaggatt	caaaatagat	ttcctctctg	cattgtgctg	ttatgatttt	3900
taattccgta	acaacgcaaa	tgcattttgc	tagtcttata	aagaagggtt	aatgcaaaata	3960

ttctgattaa	atgattgtat	ctatgaagtt	tgaatgctag	tggaagctcc	tttgaccatg	4020
ttttgttg	cgagcattta	agagagttaa	gagaatgctt	ctttggtgct	gttctggtat	4080
ggaaggatcc	acagataaaa	ttcaggagaa	tatagtagtg	gccaaagggtg	gtgacgggtga	4140
tggtggcatg	tgatccccc	gatcttcagt	gacccagaga	ggaggggacg	gcgcggtggtg	4200
agctacaagg	catactcagt	ggagggcaag	atcaaggcct	cccgtccgta	ggggactccg	4260
ctgcatcaag	gccaactgct	ccgaactgat	caatttctgg	tgacagacagg	tgcttgcggt	4320
caggttaaag	aagtiggcaa	aaatgcttct	gaagaaaggt	taattgttgt	ttcatctcag	4380
gagattccag	atgatccagt	gtctccaaca	attgaggcgc	ttattttgct	ccatagtaaa	4440
gtaagtacac	ttgctgagaa	ccaccagttg	acaacacggc	ttgttggtacc	atcaaacaaa	4500
gttggttgta	ttcttgggga	aggtggaaaag	gtaattactg	aaatgagaag	acggactggg	4560
gctgaaatcc	gagtcctact	aaaagcagat	aaacctaagt	acctgtcttt	tgatgaggag	4620
cttgtgcagg	ttgctgggct	tccagctatt	gaaagaggag	ccctgacaga	gattgcttcg	4680
aggctttgaa	ctaggacact	cagagatgga	agttcttcca	ataatccgac	accttttgcc	4740
cctgttgatg	gtcctcctgt	tgatatcttg	cctaacaagg	aattcatgct	atatggacga	4800
tctgctaata	gtccccata	tgaggggcct	gctaattgat	caccatatgg	aagacctgcc	4860
attgatccac	atgatggaag	accaatatcc	acaatatgga	agacctgcca	atgatccacc	4920
atatagaaga	cctgtcaatg	atacatcata	ttgagggttg	aacaatgatg	ggcctcgtga	4980
tcaggcccg	tcctgagggg	ggcggaatgg	ggcgatcgct	ccggggcccc	cgattcccag	5040
ggccccacc	tatctgtgca	acgagtagta	gcgatcttcc	agcgcgcaac	gtgaggcgat	5100
gtttctccgt	gatttcgccc	gcctgcaact	gcgagatcgc	gagtataacg	atcagccgat	5160
cgatctcatc	tgcgactgc	catgctgatg	ccacacgcaa	gcgcagcata	tcagccttat	5220
cttggttgat	cgcatgctg	gacgagcaca	tctgttgctg	catcaactgc	tgactgctat	5280
atatgtgctg	gtgctgaatc	gatcgattgt	cgtcacggaa	gtgaagaaca	accacggcac	5340
tgctgcctgc	tgggctctag	ccgccatcag	ctgcggagct	gatccatgga	cgtgaggatt	5400
accgaagact	gtcagggtctc	actgggtatc	cagggtggctc	tgtcgaattg	tggattccaa	5460
atagttaacc	ggagtctgtc	attggtgttg	gtggtgtcaa	tctagctgag	atccgtctgg	5520
tatagcgtaa	gagaaacatc	atgcactatc	cccagtcata	accatgcccc	aatggccacc	5580
aatagttttc	ctcgtgaaaa	tctccccctg	atcccagatc	tctggtgcga	gagtgaagtt	5640
gcacgaagcc	catcctggtt	cttccgagtc	cattgtggag	atccagggca	ttccggatca	5700
agtgaagcc	gcacagagcc	ttctgcaagg	cttcatcggc	gcaagcagca	acagcaggca	5760
ggcgccccag	tcctctcgca	tggcccatca	tttttagtaa	gctggaggac	attcgcaaca	5820
ggggggctag	tggctactgc	aaagctgagt	ttgttcttca	gttcaactgc	agaaaattgc	5880
agatcggttg	ccgtagtgtc	tagaacggta	catagttgcc	acctaactgt	agcgagtggc	5940
ataacttatt	gtgtgttact	gccaatgtt	gtctctcctt	gtgttcatgg	attcagactt	6000
gtgattgtag	tatttctgga	tcagactgga	gtaaaagaaa	aaaaaaaaag	aagacatggg	6060
tttaacagta	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	6120
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa			6158

<210> 83
 <211> 2864
 <212> DNA
 <213> rice

<400>	83					
aagagatcga	tcgcgatctc	cctgccccga	cgtcgcccgc	cgatctctca	ttctctccac	60
gccctgctcg	tcgcgatctc	cctacaccat	ccctgccatc	tcctccttcc	cctcccctct	120
atcctccact	ggtgccgccc	acctctccgt	ataagacaaa	ctgcgttgcg	gcgttggttt	180
ccgcggcggc	tgtgtctgca	cctgtcagct	agggcgggca	tggcgcgccg	cgccgcttcc	240
cgcgctgttg	gcgccttctg	ctcggaaggc	tcgatccaag	ggcgaggagg	ccgcgcgggg	300
ggcagtggcg	ccgaggacgc	acgccacgtg	ttcgacgaat	tgctccgccc	tggcaggggc	360
gcctcgatct	acggcttgaa	ccgcgccttc	gccgacgtcg	cgcgtagacg	ccccgcggcc	420
gcggtgtccc	gctacaaccg	catggcccga	gcccggcgccg	acgaggtaac	tcccgaactt	480
tgcacttacg	gcaattctcat	cggttgctgc	tggcgcgccg	gccgcttggg	cctcggtttc	540
gcggccttgg	gcaatgtcat	taagaaggga	tttagagtgg	acgccatcgc	cttcaactct	600
ctgctcaagg	gcctctgtgc	cgacaagagg	acgagcgacg	caatggacat	agtgtctccg	660
agaatgaccg	agctcggctg	cataccaaat	gtcttctcct	acaatattct	tctcaagggg	720
ctgtgtgatg	agaacagaag	ccaagaagct	ctcgagctgc	tgacacatgat	ggctgatgat	780

cgaggaggag	gtagccacc	tgatgtggtg	tcgtatacca	ctgtcatcaa	tggcttcttc	840
aaagaggggg	attcagacaa	agcttacagt	acataccatg	aaatgctgga	ccgggggatt	900
ttacctgatg	ttgtgacct	caactctatt	attgctgctg	tatgcaaggc	tcaagctatg	960
gacaaagcca	tggaggtact	taacaccatg	gttaagaatg	gtgtcatgcc	tgattgcatg	1020
acataataa	gtattctgca	tgatatttgc	tcttcagggc	agccgaaaga	ggctatttga	1080
tttctcaaaa	agatgctcag	tgatggtgtc	gaaccagatg	ttgttactta	tagcttgctc	1140
atggattatc	tttgcaagaa	cggaagatgc	atggaagcta	gaaagatttt	cgattctatg	1200
accaagaggg	gcctaaagcc	tgaaattact	acctatggta	ccctgcttca	ggggtatgct	1260
accaaaggag	cccttggtga	gatgcatggt	ctcttggtat	tgatggtacg	aaacggtatc	1320
caccctgatc	attatgtttt	cagcattcta	atatgtgcat	acgctaaaca	agggaaagta	1380
gatcaggcaa	tgcttgtgtt	cagcaaaatg	aggcagcaag	gattgaaatc	gaatgcagtg	1440
acgtatggag	cagttatagg	catactttgc	aagtcaggca	gagtagaaga	tgctatgctt	1500
tattttgagc	agatgatcga	tgaaggacta	agccctggca	acattgttta	taactcccta	1560
attcatgggt	tgtgcacctg	taacaaatgg	gagagggctg	aagagttaat	tcttgaaatg	1620
ttggatcgag	gcactctgtc	gaacactatt	ttctttaatt	caataattga	cagtcattgc	1680
aaagaaggga	gggttataga	atctgaaaaa	ctctttgagc	tgatggtacg	tattggtgtg	1740
aagcccaatg	tcattaccta	caatactctt	atcaatggat	attgcttggc	aggtaagatg	1800
gatgaagcaa	tgaagtta	ttctggcact	gtctcagttg	gggtgaaacc	taatactgtt	1860
acttatagca	cittgattaa	tggctactgc	aaaattagta	ggatggaaga	cgcgtaggtt	1920
ctttttaagg	agatggagag	cagtgggtgt	agtctgata	ttattacgta	taacataatt	1980
ctgcaagggt	tatttcaaac	cagaagaact	gctgctgcaa	aagaactcta	tgtaggatt	2040
accgaaagtg	gaacgcagat	tgaacttagc	acatacaaca	taatccttca	tggaactttgc	2100
aaaaacaaac	tactgatga	tgcacttcag	atgtttcaga	acctatgttt	gatggatttg	2160
aagcttgagg	ctaggacttt	caacattatg	attgatgcat	tgcttaaagt	tggcagaaat	2220
gatgaagcca	aggatttgtt	tgttgctttc	tcgtctaacg	gtttagtgcc	gaattatttg	2280
acgtacaggt	tgatggctga	aaatattata	ggacaggggt	tgctagaaga	attggatcaa	2340
ctctttcttt	caatggagga	caatggctgt	actgttgact	ctggcatgct	aaatttcatt	2400
gttagggaac	tggtgcagag	aggtgagata	accagggctg	gcacttacct	ttccatgatt	2460
gatgagaagc	acttttccct	cgaagcatcc	actgcttcct	tgtttataga	tcttttgtct	2520
gggggaaaat	atcaagaata	ttatagggtt	ctccctgaaa	aatacaagtc	ctttatagaa	2580
tctttgagct	gctgaagcat	tttgagcgtt	tgaatttctg	tggttgaatt	cttttctcct	2640
acagtcctat	tagaggaggg	atcttctctg	tatgtgtaaa	tagcgaggta	tgtatgccac	2700
ctctccgaat	tatttttact	gtggtttcta	gactgtaaac	aagcaattat	gttatgctgt	2760
tgatgccaga	aaaaacataa	aagtttgtcg	ttatctctac	taacggatca	taaagggatt	2820
tgtgactgga	gtttcaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaa		2864

<210> 84
 <211> 2819
 <212> DNA
 <213> rice

<400> 84						
ctcattctct	ccacgccctg	ctcgtcgccg	atctctctaca	ccatccctgc	catctcctcc	60
ttccccctcc	ctctatcctc	cactgggtgcc	gccacctct	ccgtataaga	caaactgcgt	120
tgcggcgctt	gtttccgcgc	gcgctgctgc	tgcacctgtc	agctagggcg	ggcatggcgc	180
gccgcgcgc	ttccgcgcgt	gttggcgccc	ttcgctcgga	cggctcgatc	caagggcgag	240
gaggccgcgc	ggggggcagt	ggcgccgagg	acgcacgcca	cgtgttcgac	gaattgctcc	300
gccgtggcag	gggcgcctcg	atctacggct	tgaaccgcgc	cctcgccgac	gtcgcgcggtg	360
acagccccgc	ggcgcccggt	tcccgctaca	accgcatggc	ccgagccggc	gccgacgagg	420
taactcccga	cttgtgcacc	tacggcattc	tcacgtggtt	ctgctgccgc	gcgggccgct	480
tggaacctcg	tttcgcggcc	ttgggcaatg	tcattaagaa	gggatttaga	gtggacgcca	540
tcgccttcac	tcctctgtct	aagggcctct	gtgccgacaa	gaggacgagc	gacgcaatgg	600
acatagtgtc	ccgcagaatg	accgagctcg	gctgcatacc	aaatgtcttc	tcctacaata	660
ttcttctcaa	ggggctgtgt	gatgagaaca	gaagccaaga	agctctcgag	ctgctgcaca	720
tgatggctga	ggaggtagcc	caactgtatg	gggtgctgat	accactgtca		780
tcaattggctt	cttcaaagag	ggggattcag	acaaagctta	cagtacatac	catgaaatgc	840
tggaccgggg	gattttacct	gatgttgtga	cctacaactc	tattattgct	gcgttatgca	900

aggctcaagc	tatggacaaa	gccatggagg	tacttaacac	catgggtaag	aatgggtgtca	960
tgccctgattg	catgacatat	aatagtatcc	tgcatggata	ttgctcttca	gggcagccga	1020
aagaggctat	tggatttctc	aaaaagatgc	gcagtgatgg	tgtcgaacca	gatgttggtta	1080
cttatagctt	gctcatggat	tatcttttgca	agaacggaag	atgcatggaa	gctagaaaga	1140
ttttcgattc	tatgaccaag	aggggcctaa	agcctgaaat	tactacctat	ggtaccctgc	1200
ttcaggggta	tgctaccaa	ggagcccttg	ttgagatgca	tggtctcttg	gatttgatgg	1260
tacgaaacgg	tatccaccct	gatcattatg	ttttcagcat	tctaataatg	gcatacgcta	1320
aacaagggaa	agtagatcag	gcaatgcttg	tgttcagcaa	aatgaggcag	caaggattga	1380
atccgaatgc	agtgacgtat	ggagcagtta	taggcatact	ttgcaagtca	ggcagagtag	1440
aagatgctat	gctttatatt	gagcagatga	tcgatgaagg	actaagccct	ggcaacattg	1500
tttataactc	cctaattcat	ggttttgtgca	cctgtaacaa	atgggagagg	gctgaagagt	1560
taattctttga	aatgttggat	cgaggcatct	gtctgaacac	tattttcttt	aattcaataa	1620
ttgacagtca	ttgcaaagaa	gggaggggta	tagaatctga	aaaactcttt	gagctgatgg	1680
tacgtatttg	tgtgaagccc	aatgtcatta	cctacaatac	tcttatcaat	ggatattgct	1740
tggcaggtaa	gatggatgaa	gcaatgaagt	tactttctgg	catggtctca	gttgggttga	1800
aacctaatat	tgttacttat	agcactttga	ttaatggcta	ctgcaaaatt	agtaggatgg	1860
aagacgcgtt	agttcttttt	aaggagatgg	agagcagtgg	tgtagtctct	gatattatta	1920
cgtataacat	aattctgcaa	ggttttatttc	aaaccagaag	aactgctgct	gcaaaagaac	1980
tctatgttag	gattaccgaa	agtggaaacg	agattgaact	tagcacatac	aacataatcc	2040
ttcatggact	ttgcaaaaac	aaactcactg	atgatgcact	tcagatgttt	cagaacctat	2100
gtttgatgga	tttgaagctt	gaggctagga	ctttcaacat	tatgattgat	gcattgctta	2160
aagttggcag	aaatgatgaa	gccaaaggatt	tgtttggtgc	tttctcgtct	aacgggttag	2220
tgccgaatta	ttggacgtac	aggttgatgg	ctgaaaatat	tataggacag	gggttgctag	2280
aagaattgga	tcaactcttt	ctttcaatgg	aggacaatgg	ctgtactgtt	gactctggca	2340
tgctaaattt	cattgttagg	gaactgttgc	agagaggtga	gataaccagg	gctggcactt	2400
acccttccat	gattgatgag	aagcactttt	ccctcgaagc	atccactgct	tccttgttta	2460
tagatctttt	gtctggggga	aaatatcaag	aatattatag	gtttctccct	gaaaaataca	2520
agtcctttat	agaatctttg	agctgctgaa	gcattttgca	gctttgaaat	tctgtgttgg	2580
aattcttttc	tcctacagtc	ctattagagg	agggatcttc	tctgtatgtg	taaatagcga	2640
ggtatgtatg	ccacctctcc	gaattatttt	tactgtgggt	cctagactgt	aaacaagcaa	2700
ttatgttatg	ctgttgatgc	cagaaaaaac	ataaaagttt	gtcgttatct	ctactaacgg	2760
atcataaagg	gatttgtgac	tggagtttca	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2819

<210> 85
 <211> 2649
 <212> DNA
 <213> rice

ggtgccgccc	acctctccgt	ataagacaaa	ctgcgttgcg	gcgttggttt	ccgccggcgc	60
tgctgctgca	cctgtcagct	agggcgggca	tggcgcgccg	cgccgcttcc	cgcgctgttg	120
gcgcccttcg	ctcggaacgg	tcgatccaag	ggcgaggagg	ccgcgcgggg	ggcagtgggc	180
ccgaggacgc	acgccacgtg	ttcgacgaat	tgctccgcgg	tggcaggggc	gcctcgatct	240
acggcttgaa	ccgcgccttc	gccgacgtcg	cgcgtgacag	ccccgcggcc	gccgtgtccc	300
gctacaaccg	catggcccga	gccggcgccg	acgaggtaac	tcccgacttg	tgcacctacg	360
gcattctcat	cggttgctgc	tgccgcgcgg	gccgcttgga	cctcggtttc	gcggccttgg	420
gcaatgtcat	taagaaggga	tttagagtgg	acgccatcgc	cttcaactcct	ctgctcaagg	480
gcctctgtgc	cgacaagagg	acgagcgacg	caatggacat	agtgctccgc	agaatgaccg	540
agctcggctg	cataccaaat	gtcttctcct	acaatatctt	tctcaagggg	ctgtgtgatg	600
agaacagaag	ccaagaagct	ctcgagctgc	tgacatgat	ggctgatgat	cgaggaggag	660
gtagcccacc	tgatgtggtg	tcgtatacca	ctgtcatcaa	tggtctcttc	aaagaggggg	720
attcagacaa	agcttacagt	acataccatg	aatgctgga	ccgggggatt	ttacctgatg	780
ttgtgacctt	caactctatt	attgctgcgt	tatgcaaggc	tcaagctatg	gacaaagcca	840
tgagggtact	taacaccatg	gttaagaatg	gtgtcatgcc	tgattgcatg	acataataa	900
gtattctgca	tggtatttgc	tcttcagggc	agccgaaaga	ggctatttga	tttctcaaaa	960
agatgcgcag	tgtatggtgc	gaaccagatg	ttgttactta	tagcttgctc	atggattatc	1020
tttgcaagaa	cgggaagatgc	atggaagcta	gaaagatttt	cgattctatg	accaagaggg	1080


```

gcctaaagcc tgaattact acctatggta ccctgcttca ggggtatgct accaaaggag 1140
cccttggtga gatgcatggt ctcttggtt tgatggtagc aaacgggtatc caccctgac 1200
attatgtttt cagcattcta atatgtgcat acgctaaaca agggaaagta gatcaggcaa 1260
tgcttggtt cagcaaaatg aggcagcaag gattgaatcc gaatgcagt acgtatggag 1320
cagttatagg catactttgc aagtcaggca gagtagaaga tgctatgctt tttttgagc 1380
agatgatcga tgaaggacta agccctggca acattgttta taactcccta attcatggtt 1440
tgtgcacctg taacaaatgg gagagggctg aagagttaat tcttgaaatg ttggatcgag 1500
gcatctgtct gaacactatt ttctttaatt caataattga cagtcattgc aaagaaggga 1560
gggttataga atctgaaaaa ctctttgagc tgatggtagc tattggtgtg aagcccaatg 1620
tcattaccta caatactctt atcaatggat attgcttggc aggttaagatg gatgaagcaa 1680
tgaagttact ttctggcatg gtctcagttg gggtgaaacc taatactgtt acttatagca 1740
ctttgattaa tggctactgc aaaattagta ggatggaaga cgcgttagtt ctttttaagg 1800
agatggagag cagtgggtgtt agtcctgata ttattacgta taacataatt ctgcaagggtt 1860
tatttcaaac cagaagaact gctgctgcaa aagaactcta tgtaggatt accgaaagt 1920
gaacgcagat tgaacttagc acatacaaca taatccttca tggactttgc aaaaacaaac 1980
tcactgatga tgcacttcag atgtttcaga acctatgttt gatggatttg aagcttgagg 2040
ctaggacttt caacattatg attgatgcat tgcttaaagt tggcagaaat gatgaagcca 2100
aggatttggt tgttgctttc tcgtctaacg gtttagtgcc gaattatttg acgtacaggt 2160
tgatggctga aaatattata ggacaggggt tgctagaaga attggatcaa ctctttcttt 2220
caatggagga caatggctgt actgttgact ctggcatgct aaatttcatt gttagggaac 2280
tggtgcagag aggtgagata accagggctg gcacttacct ttccatgatt gatgagaagc 2340
acttttccct cgaagcatcc actgcttctt tgtttataga tcttttgtct gggggaaaat 2400
atcaagaata ttatagggtt ctccctgaaa aatacaagtc ctttatagaa tctttgagct 2460
gctgaagcat tttgcagctt tgaattctg tgttggaatt cttttctcct acagtcctat 2520
tagaggaggg atcttctctg tatgtgtaaa tagcgaggta tgtatgccac ctctccgaat 2580
tatttttact gtggttctta gactgtaaac aagcaattat gttatgctgt tgatgccaga 2640
aaaaaaaaa
2649

```

<210> 86

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide primer for amplification

<400> 86

cagttgggtt gaaacctaat actg 24

<210> 87

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide primer for amplification

<400> 87

cactaaaccg ttagacgaga aagc 24